





PG&E 10-Year (2028-2037) Electrical Undergrounding Plan

Volume 2 of 2 (R0) | September 30, 2026

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PACIFIC GAS AND ELECTRIC COMPANY
10-YEAR (2028-2037) ELECTRICAL UNDERGROUNDING PLAN
VOLUME II

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PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT A

PROGRESS REPORT 0 NARRATIVE

PACIFIC GAS AND ELECTRIC COMPANY
ELECTRICAL UNDERGROUNDING PLAN
ATTACHMENT A
PROGRESS REPORT 0 NARRATIVE

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PACIFIC GAS AND ELECTRIC COMPANY
ELECTRICAL UNDERGROUNDING PLAN
ATTACHMENT A
PROGRESS REPORT 0 NARRATIVE

A. Introduction

Pacific Gas and Electric Company (PG&E) submits this Progress Report consistent with Section 2.6.1 of the Electrical Undergrounding Plan (EUP) Guidelines.

Progress Report 0 requires PG&E to include narratives that are also required to be included in the EUP. Accordingly, for ease of review, PG&E's Progress Report 0 includes references to the applicable chapters and sections of the EUP to direct the reader to the relevant sections of the EUP where the required narrative content is addressed in lieu of providing a duplicative narrative. This approach reflects that Progress Report 0 is based on information available at the time of submission of the EUP and is intended to establish baseline reporting consistency with the approved EUP.

For future Progress Reports, PG&E will provide an updated narrative for any sections that have changed since the prior report, including updates to assumptions, methodologies, data inputs, or implementation status, consistent with the reporting requirements of the EUP as discussed in chapter 6 of the EUP.

B. Progress Report Required Content (EUP Guidelines Section 2.6.1)

Progress Report 0 must be based on information and data available at the time of submission. The Circuit Segment Information Lists, including the Confirmed Projects List and the Prioritized Project List, submitted in Progress Report 0 must meet the minimum requirements described in Section 2.4.1 for Screen 3.

Progress Report 0 must, at a minimum, include the following sections:

a. Portfolio Coversheet (narrative);
b. Example Rejected Project(s) (see Section 2.4.5.2, Twenty Five Undergrounding Project Requirement);
c. Plan Mitigation Objective (narrative);
d. Plan Tracking Objectives (narrative);
e. Target/Timeline Table (narrative);
f. Identified Wildfire Rebuild Areas (narrative);
g. Model Report (see Section 2.7.2);
h. Alternative Mitigation Selection Process (narrative);

i. All data required pursuant to Section 2.8 and Appendix C of these Guidelines; and

j. Any additional System Level, Portfolio Level and Project Level information the Large Electrical Corporation would like to be included in Progress Reports.

1. Progress Report Organization

Our Progress Report is organized as set forth in Table A-1 below.

TABLE A-1
EUP GUIDELINES REQUIREMENTS

Line No.	EUP Guidelines Section	EUP Guidelines Requirement	Requirement Reference in Progress Report
1	2.8.6.1	Portfolio Coversheet	Attachment A-1
2	2.4.5.2	Example Rejected Project	Section 1 b
3	2.3.1	Plan Mitigation Objective	Section 1 c
4	2.3.2	Plan Tracking Objectives	Section 1 d
5	2.5.1	Target/Timeline Table	Section 1 e
6	2.4.3.1	Identified Wildfire Rebuild Areas	Section 1 f
7	2.7.2	Model Report	Section 1 g
8	2.4.4	Alternative Mitigations Selection Process	Section 1 h
9	2.8 & Appendix C	Required Data	Section 1 i
10	2.4.4.1	SPD-37 Appendix 1 Required Data	Section 1 j

a. Portfolio Coversheet

See EUP Chapter 9 and Attachment A-1: Portfolio Coversheet.

b. Example Rejected Project(s)

See EUP Chapter 3, Section 3.D.3.b, for a description of a Rejected Project.

c. Plan Mitigation Objective

See EUP Chapter 2, Section D for a description of the Plan Mitigation Objective.

d. Plan Tracking Objectives

See EUP Chapter 2, Section E for a description of the Plan Tracking Objectives. The Plan Tracking Objectives Table 2-13 as included in Chapter 2 will be updated in each Progress Report.

e. Target/Timeline Table

See EUP Chapter 2, Section D.10 for information about the Target/Timeline Table. The Target/Timeline Table is also included below as Table A-2 and will be updated in each Progress Report.

TABLE A-2
TARGET/TIMELINE TABLE

Line No.	Year	Date Range	Miles Completed[a]	OH Miles De-energized	Cumulative Miles Completed[a]	Preconstruction Miles[b]	Unit Cost Target (Escalated)[c]	Unit Cost Target (Unescalated)[c]	Change in Instant Wildfire Risk Year 10[d] [e]	Change in Cumulative Wildfire Risk Over 55 Years[d] [e]	Change in Instant Reliability Risk Year 10[d] [e]	Change in Cumulative Reliability Risk Over 55 Years[d] [e]
	Units:	Date Range	Miles	Miles	Miles	Miles	$M/Mile	$M/Mile	$M	$M	$M	$M
1	1	1/1/2028 - 12/31/2028	250	200	250	650	$3.05	$3.05	$21.6	$2,221	$51.3	$6,289
2	2	1/1/2029 - 12/31/2029	300	240	550	800	$3.10	$3.03	27.6	2,749	16.7	1,796
3	3	1/1/2030 - 12/31/2030	350	280	900	1,000	$3.14	$3.00	25.2	2,484	37.4	4,106
4	4	1/1/2031 - 12/31/2031	450	360	1,350	1,150	$3.18	$2.98	28.9	2,816	51.2	5,335
5	5	1/1/2032 - 12/31/2032	550	440	1,900	1,225	$3.23	$2.96	29.5	2,846	48.4	6,613
6	6	1/1/2033 - 12/31/2033	600	480	2,500	1,250	$3.30	$2.95	29.9	2,920	54.0	7,274
7	7	1/1/2034 - 12/31/2034	625	500	3,125	1,250	$3.36	$2.94	27.8	2,759	58.3	7,185
8	8	1/1/2035 - 12/31/2035	625	500	3,750	1,250	$3.42	$2.92	24.5	2,314	66.9	7,125
9	9	1/1/2036 - 12/31/2036	625	500	4,375	625	$3.49	$2.91	21.2	2,031	75.3	9,319
10	10	1/1/2037 - 12/31/2037	625	500	5,000	0	$3.56	$2.90	19.2	1,769	95.1	13,629
11	End Total	12/31/2037	5,000	4,000	5,000	0			$255	$24,908	$554	$68,670

(a) Underground mileage is estimated by applying a 1.25 multiplier to the corresponding overhead mileage deenergized. The 2028 undergrounding mileage shown in the EUP Target/Timeline Table (250 miles) differs from the mileage approved in the 2026 WMP (400 miles). The difference is primarily due to the time needed to transition the program and its supporting structure to meet the EUP requirements. Once the EUP is approved, PG&E will update the WMP mileage at the appropriate time.

(b) Pre-construction miles are calculated as the sum of undergrounding miles required to be in the planning process in the next two years that are needed to meet execution targets. These miles reflect the number of miles passing Screen 3 and Screen 4. There is a two year lead time for pre construction miles (e.g., 650 miles in 2028 is the sum of planned miles for 2029 and 2030).

(c) To establish 2028 unit cost values, 2025 actual costs are escalated to 2028 dollars. The “Unit Cost Escalated” column reflects annual unit cost values further escalated from 2028 dollars to the dollar value in the applicable year (2028–2037). The “Unit Cost Unescalated” column reflects annual unit cost values presented in unescalated 2028 dollars and incorporates assumed unit cost reductions over time as program efficiencies are realized. Cost assumptions applied in the current WBCA model for Screen 2 are based on average 2028 unit costs; however, costs for individual projects may vary based on project-specific feasibility multipliers.

(d) Change in Instantaneous Wildfire Risk at Year 10 and Change in Instantaneous Outage Program Risk at Year 10 represents the difference between the circuit segment’s projected unmitigated risk and post-mitigation residual risk in 2037. Both values reflect applicable inflation and climate escalation adjustments. Change in Cumulative Wildfire Risk Over 55 Years and Change in Cumulative Outage Program Risk Over 55 Years represent the cumulative difference between the circuit segment’s projected unmitigated risk and post-mitigation residual risk over the 55-year evaluation period. Both values reflect applicable inflation and climate escalation adjustments throughout the evaluation period.

(e) Totals may not exactly equal the sum of individual values because figures are rounded independently.

f. Identified Wildfire Rebuild Areas

See EUP Chapter 3, Section D.1.a for information regarding the process used to Identify Circuit Segments in Fire Rebuild Areas. A list of wildfires and Fire Rebuild Areas is attached as Table C.24.

g. Model Report

See Chapter 7, Section D, for information on these sections of the Model Report Chapters:

- Ignition Likelihood Model;
- Ignition Consequence Model;
- Outage Program Risk Model: EPSS;
- Outage Program Risk Model: PSPS;
- Overall Utility Risk Model;
- Wildfire Benefit Cost Analysis Model; and
- Enterprise Risk Bow Tie.

h. Alternative Mitigation Selection Process

See EUP Chapter 3, Section D.2, for information on the mitigation selection process.

i. Required Data: EUP Guidelines Section 2.8 and Appendix C

Data required by EUP Guidelines Section 2.7.7, 2.8.6.1, 2.8.6.2, and 2.8.6.3 is included in the Portfolio Coversheet (Attachment A-1) as directed in EUP Guidelines Section 2.8.6.4.

The data required by EUP Guidelines Appendix C is attached to this Progress Report as Attachments A-2 to A-5. PG&E's assumptions and limitations regarding the submitted data are outlined in the following sections of EUP Chapter 6:

- Tabular Data Submission – Section C.1.b;
- JSON Data Submission – Section C.1.c; and
- Spatial Data Submission – Section C.1.d.

j. CPUC SPD-37, Appendix 1: SB 884 Project List Tables

The CPUC data required in Resolution SPD-37, Appendix 1, as updated by the CPUC Safety Policy Division in its *SB 884 Project List Data Requirements Guidelines* dated May 11, 2026, is attached to the EUP as Attachment D and will be included in subsequent Progress

Reports. The SPD-37 data is described in EUP Chapter 3, Section D.2.a.1.

C. Data Submitted With Progress Report 0

Table A-3 below lists attachments, tables, and data files included with Progress Report 0.

TABLE A-3
PROGRESS REPORT 0 DATA SUBMISSION ATTACHMENTS

EUP Section(s)	EUP Location	Attachment Description	Attachment File Name	Data/Table Name	Table File Name
6	Attachment A	Progress Report Narrative	PGE_AtchA_2026-10-30_Progress Report 0 Narrative_R0	Narrative of Progress Report 0	N/A
9.E	Attachment A-1	Portfolio Coversheet	PGE_AtchA1_2026-10-30_Progress Report 0 Portfolio Coversheet_R0	Portfolio Coversheet	N/A
6.C.1 9.C.1	Attachment A-2	Tabular Data Submission	PGE_Initial_2026-11-02_Tabular Data_R0	Table C.1 Plan Table	PGE_Initial_2026-09-30_T1_R0
				Table C.2 KDMM Table	PGE_Initial_2026-09-30_T2_R0
				Table C.3 Risk Model Version History Table	PGE_Initial_2026-09-30_T3_R0
				Table C.4 Portfolio Table	PGE_Initial_2026-09-30_T4_R0
				Table C.5 Risk Model Backtesting Table	PGE_Initial_2026-09-30_T5_R0
				Table C.6 Circuit Segment Identification Table	PGE_Initial_2026-09-30_T6_R0
				Table C.8 Circuit Segment Risk Score Table	PGE_Initial_2026-10-12_T8_R0
				Table C.9 Screen History Table	PGE_Initial_2026-09-30_T9_R0
				Table C.10 Project Table	PGE_Initial_2026-09-30_T10_R0
				Table C.11 Screen 2 Table	PGE_Initial_2026-09-30_T11_R0
				Table C.12 Screen 3 Table	PGE_Initial_2026-11-02_T12_R0
				Table C.13 Screen 4 Table	PGE_Initial_2026-09-30_T13_R0
				Table C.14 Subproject Table	PGE_Initial_2026-10-12_T14_R0
				Table C.15 Project Index Table	PGE_Initial_2026-11-02_T15_R0
				Table C.22 Non-EUP Projects	PGE_Initial_2026-09-30_T22_R0
				Table C.23 Subproject Management Template	PGE_Initial_2026-10-30_T23_R0
				Table C.24 Fire Rebuild Areas	PGE_Initial_2026-09-30_T24_R0
6.C.1.c 9.C.5.b	Attachment A-3	JSON Data Submission: Project Variable Modifiers	PGE_Initial_2026-09-30_PVM_R0	Project Variable Modifiers JSON	N/A: JSON submission contains all data
6.C.1.c 9.C.5.a	Attachment A-4	JSON Data Submission: Model Risk Landscapes for Projects	PGE_Initial_2026-10-30_Projects_R0	Model Risk Landscape JSON	N/A: JSON submission contains all data

TABLE A-3
PROGRESS REPORT 0 DATA SUBMISSION ATTACHMENTS
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EUP Section(s)	EUP Location	Attachment Description	Attachment File Name	Data/Table Name	Table File Name
6.C.1.d – j 9.C.3	Attachment A-5	Spatial Data Submission	PGE_Initial_2026-09-30_GIS Data_R0.CONF.zip	Table C.16 Circuit Segment GIS Data Table C.17 Project GIS Data Table C.18 Pre-mitigation Overhead Conductor GIS Data Table C.19 Pre-mitigation Assets GIS Data Table C.20 Post-mitigation Conductor GIS Data Table C.21 Post-mitigation Assets GIS Data	N/A: GDB submission contains all data

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT A-1

PORTFOLIO COVERSHEET

PACIFIC GAS AND ELECTRIC COMPANY
ELECTRICAL UNDERGROUNDING PLAN
ATTACHMENT A-1
PORTFOLIO COVERSHEET

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PACIFIC GAS AND ELECTRIC COMPANY
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ATTACHMENT A-1
PORTFOLIO COVERSHEET

A. Summary

The Portfolio Coversheet is organized as follows, as required by EUP Guidelines Section 2.8.6.4:

TABLE PCS-1:
EUP GUIDELINES REQUIREMENTS ADDRESSED IN PORTFOLIO COVERSHEET

Line No.	EUP Guidelines Section	EUP Guidelines Requirement	Requirement Reference in Portfolio Coversheet
1	2.8.6.1	Narrative Justification	Section B
2	2.8.6.2	Key Decision-Making Metrics Profiles	Section C
3	2.7.7	Project Variable Modifiers	Section D
4	2.8.6.3	Portfolio Development	Section E

B. Narrative Justification (EUP Guidelines Section 2.8.6.1)

The Portfolio Coversheet is a text document which summarizes the macro-level impacts of the EUP. The Large Electrical Corporation must submit the Portfolio Coversheet in Progress Report 0 and each subsequent Progress Report. The content of the Portfolio Coversheet must be updated with the most up-to-date information available in each Progress Report.

The figures and tables in the Portfolio Coversheet will summarize the most important aspects of the risk modeling at the System-Level and Portfolio-Level, and must be accompanied by a data submission as detailed in Appendix C.

The Portfolio Coversheet must include a narrative section which details the formal definition and calculations of the Portfolio-Level Standards as directed in Section 2.7.8 of these Guidelines.

The Portfolio Coversheet must include a narrative of no more than one page explaining why any Circuit Segment in the top 5 percent of Overall Utility Risk by score was not included in the EUP.

The Portfolio Coversheet must include a table showing the instantaneous and cumulative values or scores for each Key Decision Making Metrics (KDMM) at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 35, 40, 45, 50, and 55 years. The instantaneous values describe the risk at a single moment in time, while the cumulative values indicate the accumulation over a time. Values that do not accumulate over time, such as consequence scores, must be reported as a value at a given time.

The Portfolio Coversheet summarizes the macro-level impacts of the EUP in compliance with Sections 2.8.6.1 to 2.8.6.4 of the EUP Guidelines. This Portfolio Coversheet summarizes the Plan Mitigation Objective, KDMM, and Project Variable Modifiers (PVM) that demonstrate where undergrounding achieves superior risk-reduction performance relative to Alternative Mitigations. The figures and tables in the Portfolio Coversheet follow Energy Safety's Guidelines and will summarize the most important aspects of the risk modeling at the System-Level and Portfolio-Level. The data required in Appendix C will be provided with the Progress Report.

Future Portfolio Coversheets will maintain this structure while updating Wildfire Distribution Risk Model, version 4 (WDRM v4) and KDMM outputs to reflect current conditions and measured progress toward the Plan Mitigation Objective.

1. Macro-Level Impacts

Implementing our EUP will significantly reduce ignition and reliability risk in the High Fire Threat District (HFTD). Implementation of the EUP is expected to reduce Overall Utility Risk by approximately $3 million per mile of overhead miles removed over the 55-year life of undergrounding assets within the HFTD. This assumes that we harden approximately 4,000 miles of overhead distribution lines by moving them underground. Additional overhead lines will be removed through overhead covered conductor installation and line removal with remote grid; this work will be funded primarily through PG&E's General Rate Cases.

2. Portfolio-Level Standards

PG&E's Portfolio Standards are discussed in EUP Chapter 7, Section L. Table PCS-2 below details PG&E's Risk Decrease Standards and Reliability Increase Standards. PG&E will update Table PCS-2 to show our progress towards the Portfolio Level Standards in each Portfolio Coversheet. Portfolio 0, as reflected in Progress Report 0, meets both the Portfolio Level Ignition Decrease Standard and the Portfolio Level Reliability Increase Standard. However, neither of the System Level Standards are currently being met. The System Level metrics are normalized across total system miles, therefore, as the portfolio expands, the gap to meeting the System

Level Standards is expected to decrease. Table PCS-2 below details PG&E's Risk Decrease Standards and Reliability Increase Standards as well as the progress towards achieving these standards.

TABLE PCS-2
PORTFOLIO STANDARDS

Line No.	Standard	Value	Portfolio 0
1	Ignition Risk Decrease Standard at Portfolio Level	$0.147M/mile	$0.263M/mile
2	Reliability Increase Standard at Portfolio Level	$0.211M/mile	$0.266M/mile
3	Ignition Risk Decrease Standard at System Level	$0.007M/mile	$0.0004M/mile
4	Reliability Increase Standard at System Level	$0.010M/mile	$0.0004M/mile

3. Exclusion of Circuit Segments in Top 5 Percent of Overall Utility Risk

Excluded Circuit Segments in the top 5 percent of Overall Utility Risk, when identified, will be listed in Table PCS-3. To date, no Circuit Segments have been excluded from the Portfolio. (See EUP Chapter 9, Section E.3.)

TABLE PCS-3
EXCLUDED CIRCUIT SEGMENTS

Line No.	Circuit Segment ID	Reason for Exclusion
1	[To be added]	[To be added]
2	[To be added]	[To be added]

4. Instantaneous and Cumulative Risk Scores for Each KDMM

The KDMMs are non-financial measures a utility uses to measure how effective an Undergrounding Project will be at reducing wildfire risk. They reflect real-world, observable risk conditions and are not shaped by financial factors or risk preferences. These metrics can be applied at three scales—systemwide, across a portfolio of Circuit Segments, or for a single Project—to show how much risk is concentrated or reduced at each level. PG&E's KDMMs are discussed in PG&E's EUP Chapter 7, Section E.

Tables PCS-4 and PCS-5 show the instantaneous risk scores and cumulative risk scores for each KDMM, which demonstrates how much Ignition Risk, Outage Program Risk, and Overall Utility Risk is expected to

decrease as the Portfolio is constructed. All numbers are shown in 2028 dollars. Tables PCS-4 and PCS-5 will be updated as the EUP progresses.

TABLE PCS-4
INSTANTANEOUS RISK SCORES FOR EACH KDMM

Line No.	Year	OUR ($M)	Ignition			Outage		
			Risk ($M)	Likelihood (Expected Ignitions per Year)	Conseq. ($M)	Risk ($M)	Likelihood (Expected minutes per Year)	Conseq. ($M)
1	0	$61.982	$14.163	1.006	$14.084	$47.819	57,031	$0.0008
2	1	$2.696	$2.250	0.086	$26.251	$0.446	1,209	$0.0004
3	2	$0.692	$0.692	0.056	$12.321	$0.000	0.000	$0.0000
4	3	$0.713	$0.713	0.056	$12.699	$0.000	0.000	$0.0000
5	4	$0.729	$0.729	0.056	$12.989	$0.000	0.000	$0.0000
6	5	$0.746	$0.746	0.056	$13.286	$0.000	0.000	$0.0000
7	6	$0.763	$0.763	0.056	$13.589	$0.000	0.000	$0.0000
8	7	$0.780	$0.780	0.056	$13.898	$0.000	0.000	$0.0000
9	8	$0.798	$0.798	0.056	$14.215	$0.000	0.000	$0.0000
10	9	$0.816	$0.816	0.056	$14.539	$0.000	0.000	$0.0000
11	10	$0.835	$0.835	0.056	$14.870	$0.000	0.000	$0.0000
12	15	$0.955	$0.955	0.056	$17.016	$0.000	0.000	$0.0000
13	20	$1.069	$1.069	0.056	$19.033	$0.000	0.000	$0.0000
14	25	$1.221	$1.221	0.056	$21.756	$0.000	0.000	$0.0000
15	30	$1.416	$1.416	0.056	$25.217	$0.000	0.000	$0.0000
16	35	$1.640	$1.640	0.056	$29.207	$0.000	0.000	$0.0000
17	40	$1.898	$1.898	0.056	$33.804	$0.000	0.000	$0.0000
18	45	$2.195	$2.195	0.056	$39.099	$0.000	0.000	$0.0000
19	50	$2.537	$2.537	0.056	$45.194	$0.000	0.000	$0.0000
20	55	$2.931	$2.931	0.056	$52.206	$0.000	0.000	$0.0000

Note: These values currently reflect Projects slated for 2028 in the UG workplan. As additional progress reports are issued, the table will be updated to account for the additional Projects (i.e., the 2028 Year 0 will not change as there will not be additional Projects for 2028; however, Year 1 will see an increase in all the values as the Projects for 2029 finish with scoping their values will get populated for Years 1 onwards).

TABLE PCS-5
CUMULATIVE RISK SCORES FOR EACH KDMM

Line No.	Year	OUR ($M)	Ignition			Outage		
			Risk ($M)	Likelihood (Expected Ignitions)	Conseq. ($M)	Risk ($M)	Likelihood (Expected minutes)	Conseq. ($M)
1	0	$61.982	$14.163	1.006	$14.084	$47.819	57,031	$0.000838
2	1	$64.678	$16.413	1.091	$15.039	$48.265	58,240	$0.000829
3	2	$65.370	$17.105	1.147	$14.906	$48.265	58,240	$0.000829
4	3	$66.083	$17.818	1.204	$14.804	$48.265	58,240	$0.000829
5	4	$66.812	$18.547	1.260	$14.723	$48.265	58,240	$0.000829
6	5	$67.558	$19.293	1.316	$14.661	$48.265	58,240	$0.000829
7	6	$68.320	$20.056	1.372	$14.617	$48.265	58,240	$0.000829
8	7	$69.101	$20.836	1.428	$14.589	$48.265	58,240	$0.000829
9	8	$69.899	$21.634	1.484	$14.575	$48.265	58,240	$0.000829
10	9	$70.715	$22.450	1.540	$14.574	$48.265	58,240	$0.000829
11	10	$71.550	$23.285	1.597	$14.584	$48.265	58,240	$0.000829
12	15	$76.972	$28.707	1.933	$14.848	$48.265	58,240	$0.000829
13	20	$82.083	$33.818	2.214	$15.274	$48.265	58,240	$0.000829
14	25	$87.851	$39.587	2.495	$15.868	$48.265	58,240	$0.000829
15	30	$94.530	$46.265	2.776	$16.669	$48.265	58,240	$0.000829
16	35	$102.268	$54.003	3.056	$17.670	$48.265	58,240	$0.000829
17	40	$111.225	$62.961	3.337	$18.868	$48.265	58,240	$0.000829
18	45	$121.589	$73.324	3.618	$20.269	$48.265	58,240	$0.000829
19	50	$133.571	$85.306	3.898	$21.883	$48.265	58,240	$0.000829
20	55	$147.416	$99.151	4.179	$23.726	$48.265	58,240	$0.000829

Note: These values currently reflect Projects slated for 2028 in the UG workplan. As additional Progress Reports are issued, the table will be updated to account for the additional Projects (i.e., the 2028 Year 0 will not change as there will not be additional Projects for 2028; however, Year 1 will see an increase in all the values as the Projects for 2029 finish with scoping their values will get populated for Years 1 onwards).

C. System and Portfolio-Level Risk Matrices and Profiles for Key Decision-Making Metrics (EUP Guidelines Section 2.8.6.2)

The EUP must include a series of visualizations and tables for each of the KDMMs showing the KDMM's distribution both with and without the Portfolio's modeled mitigation. These visualizations will be included in the Portfolio Coversheet.

On the Portfolio Coversheet, each KDMM's distribution must be reported on both a system wide and Portfolio-wide scale and emphasize the position of projects within the Risk Landscape. Every figure and table on the Portfolio Coversheet must include a caption explaining the figure.

Risk scores, the product of likelihood and consequence, must be reported as two dimensional risk matrices. Risk scores can be weighted if appropriate. Two examples of risk score matrices for Ignition Risk are presented below (Figures 3-6), followed by another example of a risk score matrix for Outage Program Risk (Figures 7-10).

The Portfolio, illustrated in Figures PCS-3 to PCS-12 below, is based on high-level cost and scope assumptions consistent with Screen 2 requirements. The Undergrounding Projects in this Portfolio are subject to change as assumptions are refined through the detailed risk evaluation in Screen 3 and represent an approximation of pre- and post-mitigated KDMMs based on available information.

The primary goal of the KDMM figures below is to demonstrate that likelihood decreases following mitigation actions. This reduction is evident in the high risk, tail risk, and high frequency outage program Circuit Segment points. Post-mitigation likelihood for each Circuit Segment is calculated as:

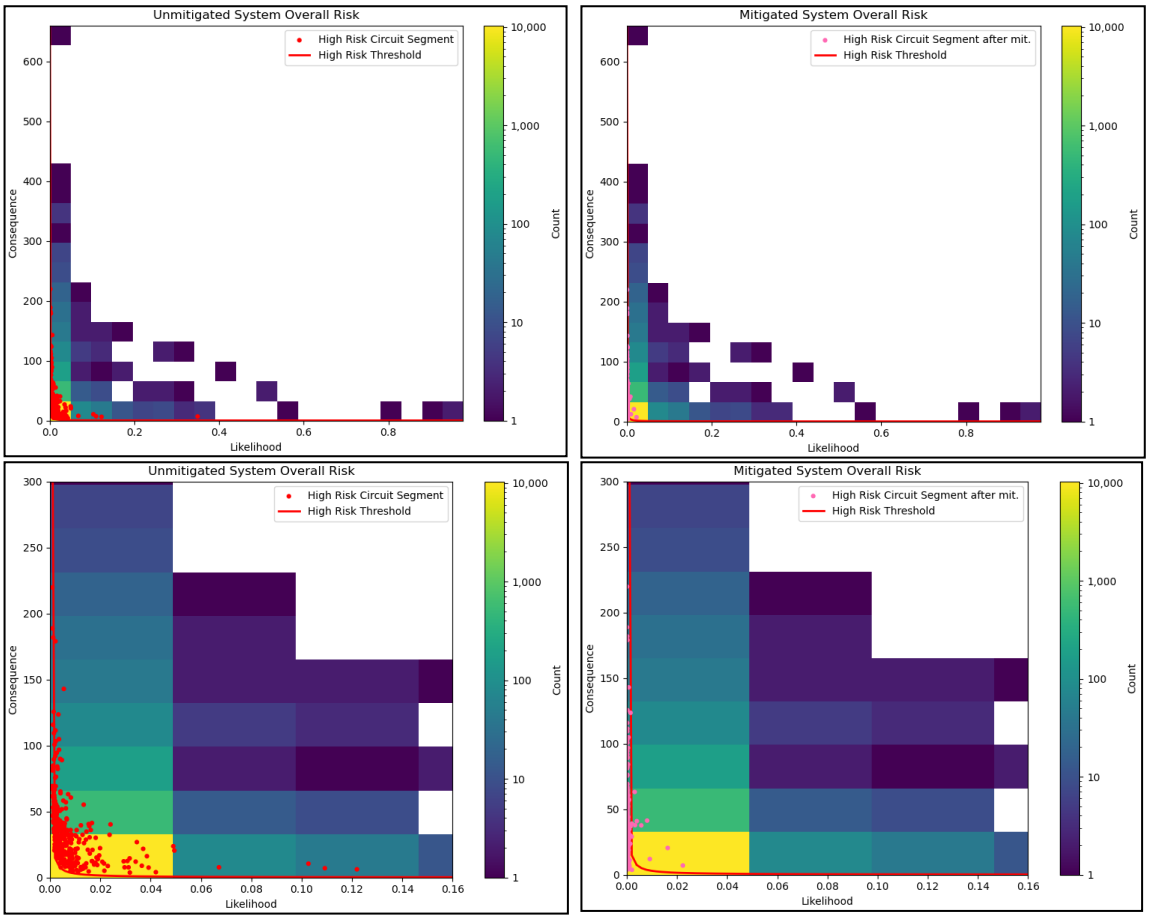
$$\textbf{Formula}: Mitigation\ Liklehood = Unmitigated\ Likelihood * (1 - Effective\ Mitigation\ Fraction)$$

The Effective Mitigation Fraction represents the proportion of HFTD/HFRA overhead line mileage within the Circuit Segment that is treated, weighted by the mitigation-effectiveness of each treatment type, including undergrounding and overhead hardening. Circuit Segments that receive undergrounding and/or overhead hardening are assigned proportional mitigation credit based on the fraction of treated mileage relative to the total HFTD/HFRA overhead mileage within that segment. Consequence is assumed to remain unchanged by mitigation, with only likelihood being reduced.

1. Overall Utility Risk (System)

Figure PCS-3 below (based on EUP Example Figure 3) demonstrates the substantial improvement in Overall Utility Risk expected from the EUP, using Overall Utility Risk as a KDMM. Each figure plots Adverse Event Consequence on the y-axis (arbitrary units) against Adverse Event Likelihood on the x-axis (arbitrary units), incorporating both Outage Program Risk and Ignition Risk. Due to the Outage Program Risk and Ignition Risk using fundamentally different likelihood scales (outage-minutes/year vs ignitions/year), neither likelihood nor consequence can be expressed in a single standard unit. To produce a unified visual, we normalize each component likelihood to a 0-1 scale, then compute a risk-weighted average that reflects each component's share of total segment risk. Consequence is back-calculated via Consequence = Risk / Likelihood. Likelihood and Consequence are provided per mile, to allow project risk to be ranked without being skewed by high risk/high mileage Projects. While the individual axes do not carry direct physical units, the relative positioning of segments represents their comparative risk profiles, and the underlying dollar-denominated risk values are preserved in the product of the two axes. The background heatmap represents the modeled distribution of Circuit Segments across the system. The red diagonal line represents the High-Risk Threshold used to identify candidate segments for undergrounding. All figures in this Portfolio Coversheet are also in EUP Chapter 9.

FIGURE PCS-3:
RISK SCORE MATRIX DEMONSTRATING SUBSTANTIAL IMPROVEMENTS IN OVERALL UTILITY RISK EXPECTED DUE TO EUP

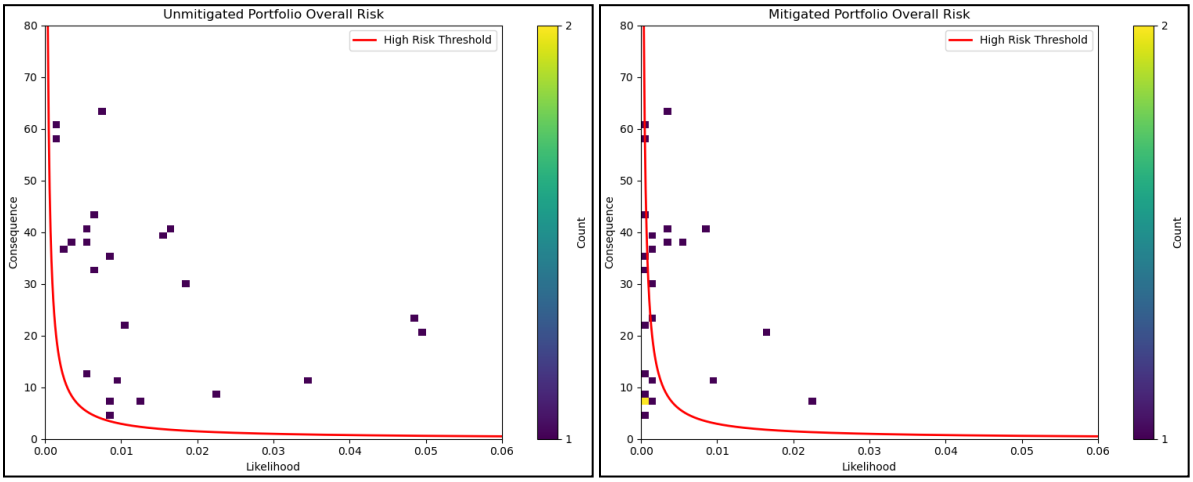


- Left (upper): Modeled system conditions prior to implementation of EUP mitigations. Red points represent Circuit Segments selected for undergrounding because they exceed the High-Risk Threshold.
- Right (upper): Modeled system conditions after undergrounding is applied to the selected segments. The heatmap reflects the modeled reduction in likelihood associated with undergrounding. Pink points represent the same selected Circuit Segments after mitigation.
- Left (lower): Zoomed view of pre-mitigation conditions, focused on high- risk Circuit Segments to highlight their position above the High-Risk Threshold.
- Right (lower): Zoomed view of post-mitigation conditions for the same Circuit Segments, illustrating their transition after mitigation relative to the High-Risk Threshold.

2. Overall Utility Risk (Portfolio)

Figure PCS-4 below (based on EUP Example Figure 4) displays only the EUP Project portfolio, rather than the entire system Overall Utility Risk.

FIGURE PCS-4
RISK SCORE MATRIX FOR PORTFOLIO LEVEL OVERALL UTILITY RISK

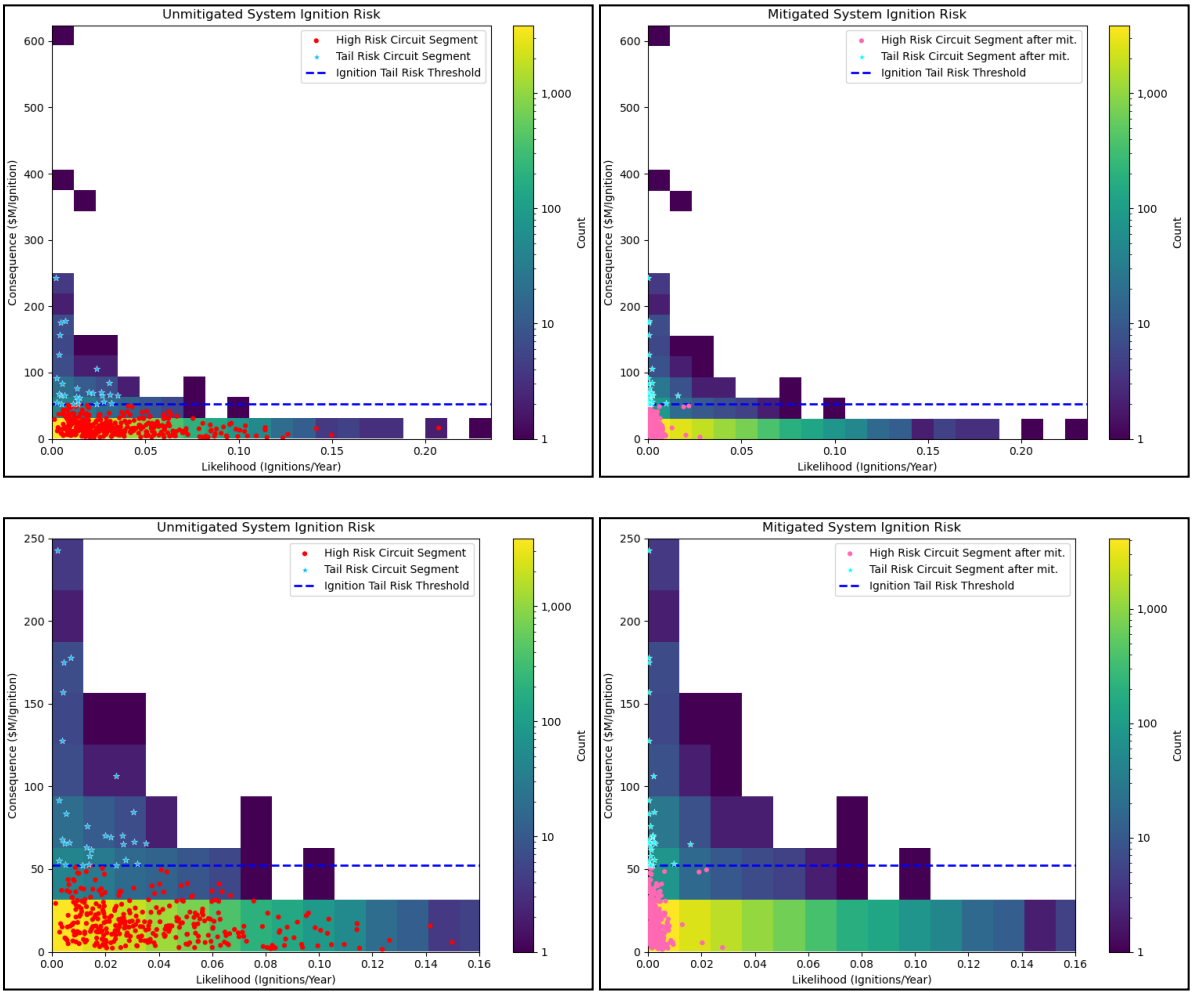


- Left: Portfolio risk distribution prior to mitigation.
- Right: Portfolio risk distribution after undergrounding mitigations are applied.

3. Ignition Risk (System)

Figure PCS-5 below (based on EUP Example Figure 5) demonstrates the substantial improvement in Ignition Risk expected due to the EUP. Each figure plots Ignition Consequence on the y-axis (arbitrary units) and Ignition Likelihood on the x-axis (arbitrary units). The background heatmap shows the modeled system distribution, with the Ignition Tail Risk Threshold shown as a blue dotted line.

FIGURE PCS-5
RISK SCORE DEMONSTRATION OF SUBSTANTIAL IMPROVEMENTS IN IGNITION RISK



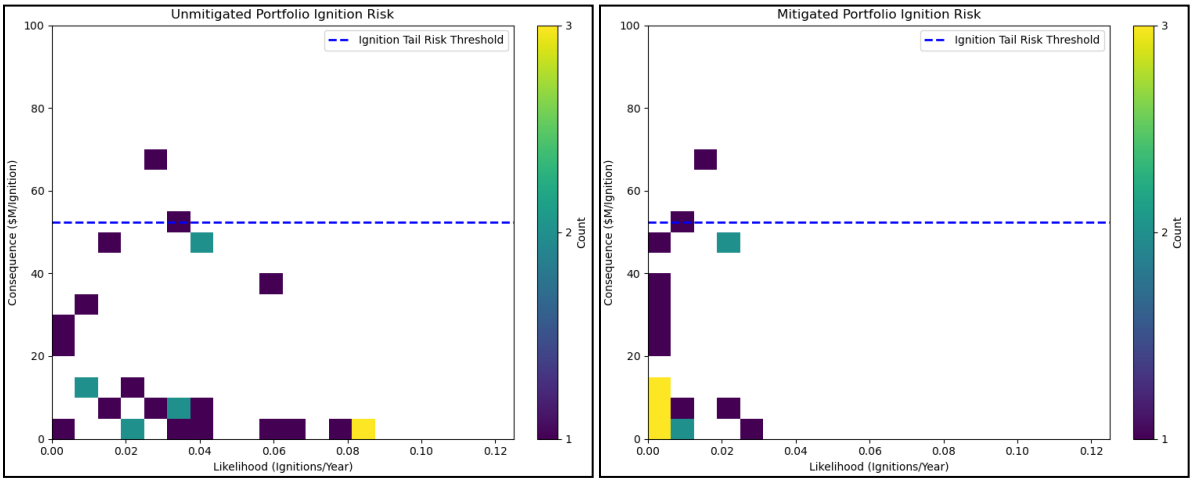
- Left (upper): Modeled system conditions prior to EUP mitigations. Red points represent Circuit Segments selected for undergrounding based on exceeding the High-Risk Threshold. Blue stars represent Circuit Segments selected for exceeding the Ignition Tail Risk Threshold.

- Right (upper): Modeled system conditions after undergrounding. The heatmap reflects reduced likelihood for mitigated segments. Pink points and teal stars represent the same High-Risk and Tail Risk Circuit Segments, respectively, after mitigation.
- Left (lower): Zoomed view of pre-mitigation conditions, focused on High-Risk and Tail Risk Circuit Segments to highlight their position relative to the Ignition Tail Risk Threshold.
- Right (lower): Zoomed view of post-mitigation conditions for the same Circuit Segments, illustrating their transition after mitigation relative to the Ignition Tail Risk Threshold.

4. Ignition Risk (Portfolio)

Figure PCS-6 below (based on EUP Example Figure 6) displays the EUP Portfolio risk rather than the full system risk.

FIGURE PCS-6
RISK SCORE MATRIX FOR PORTFOLIO LEVEL IGNITION RISK

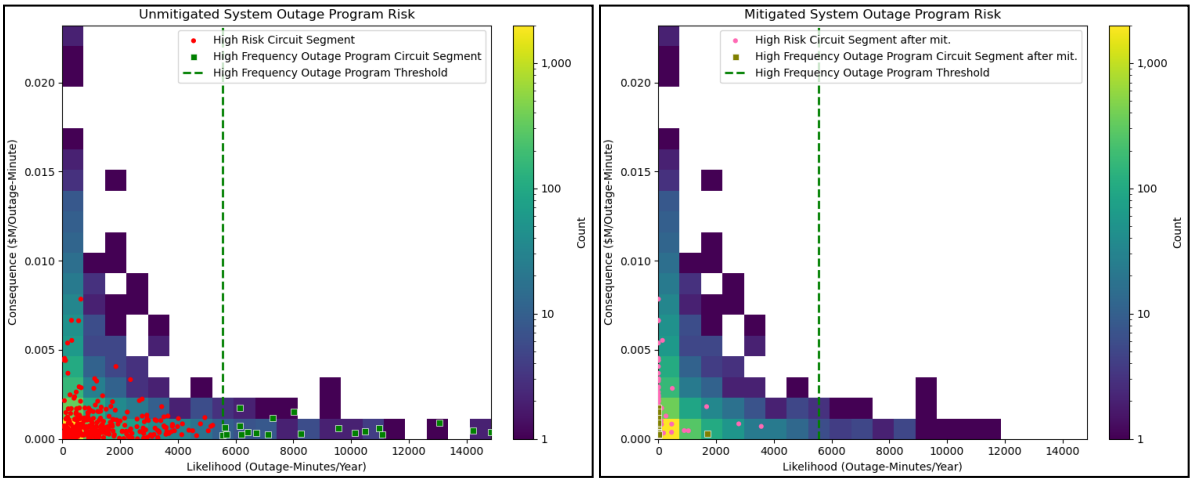


- Left: Portfolio risk distribution prior to mitigation.
- Right: Portfolio risk distribution after mitigation.

5. Outage Program Risk (System)

Figure PCS-7 below (based on EUP Example Figure 7) demonstrates the substantial improvement in Outage Program Risk expected from the EUP. Each figure plots Outage Program Consequence on the y-axis (arbitrary units) and Outage Program Likelihood on the x-axis (arbitrary units). The background heatmap represents the modeled system distribution. The High-Frequency Outage Program Threshold is shown as a green dotted line.

FIGURE PCS-7
RISK SCORE MATRIX FOR DEMONSTRATION OF SUBSTANTIAL IMPROVEMENT IN OUTAGE PROGRAM RISK

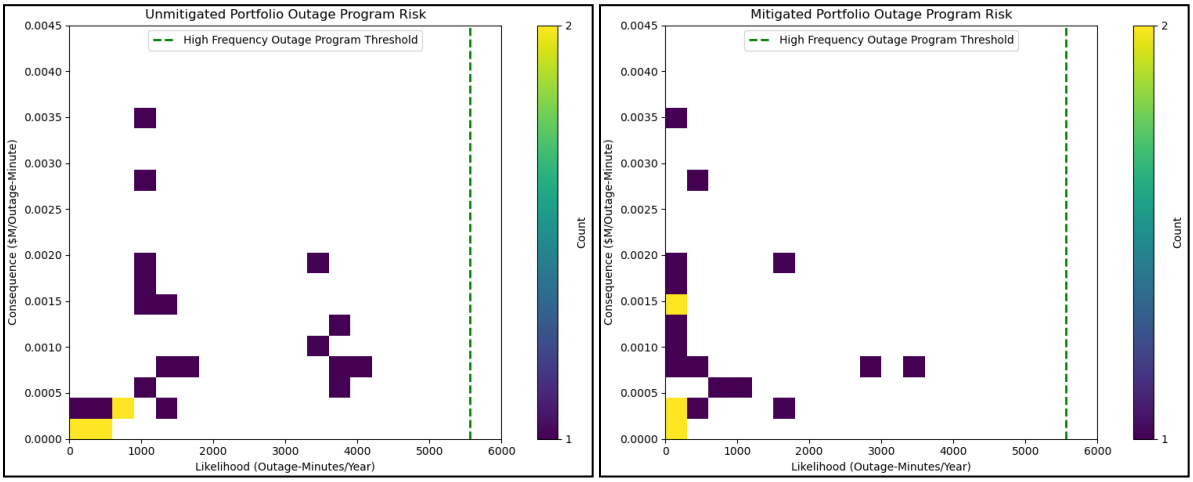


- Left: Modeled system conditions prior to EUP mitigations. Red points represent Circuit Segments selected for undergrounding due to exceeding the High Risk Threshold. Green squares represent Circuit Segments exceeding the High-Frequency Outage Program Threshold.
- Right: Modeled system conditions after undergrounding. The heatmap reflects reduced likelihood. Pink points and olive squares represent the same High-Risk and High-Frequency Outage Circuit Segments, respectively, after mitigation. The post-mitigation Circuit Segment points are tightly clustered near zero, making them difficult to distinguish individually in the visualization.

6. Outage Program Risk (Portfolio)

Figure PCS-8 below (based on EUP Example Figure 8) displays only the EUP Project portfolio.

FIGURE PCS-8
RISK MATRIX FOR PORTFOLIO-LEVEL OUTAGE PROGRAM RISK

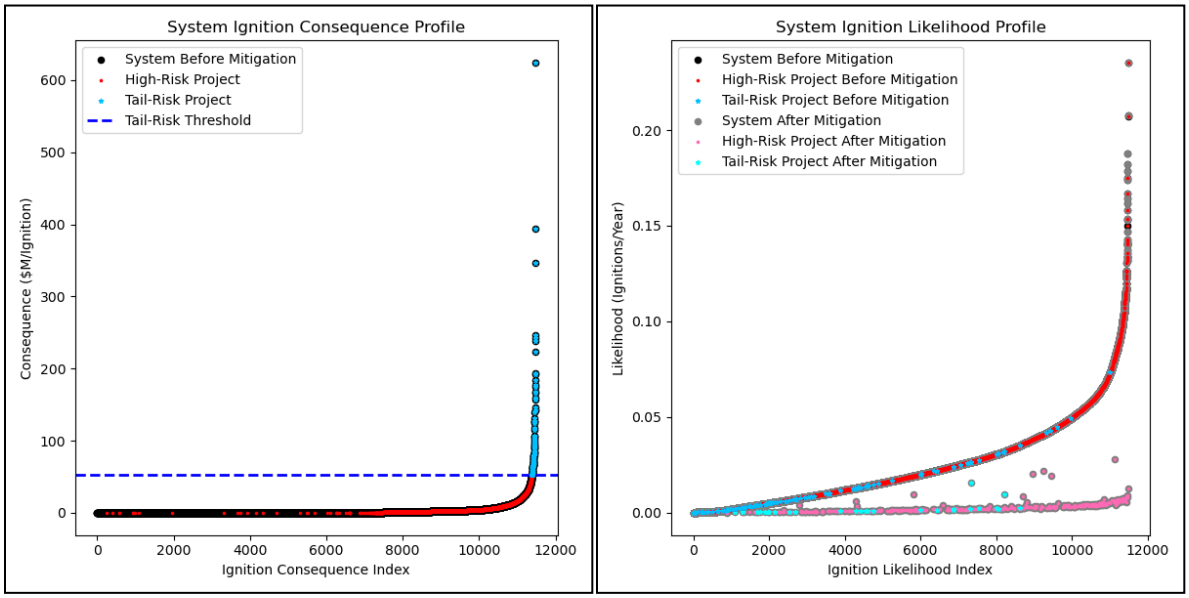


- Left: Portfolio risk distribution prior to mitigation.
- Right: Portfolio risk distribution after mitigation.

7. Ignition Consequence and Likelihood (System)

Figure PCS-9 below (based on EUP Example Figure 9) presents Ignition Consequence and Ignition Likelihood profiles for Circuit Segments selected using Ignition Risk and wildfire consequence as KDMMs.

FIGURE PCS-9
IGNITION CONSEQUENCE AND LIKELIHOOD PROFILES

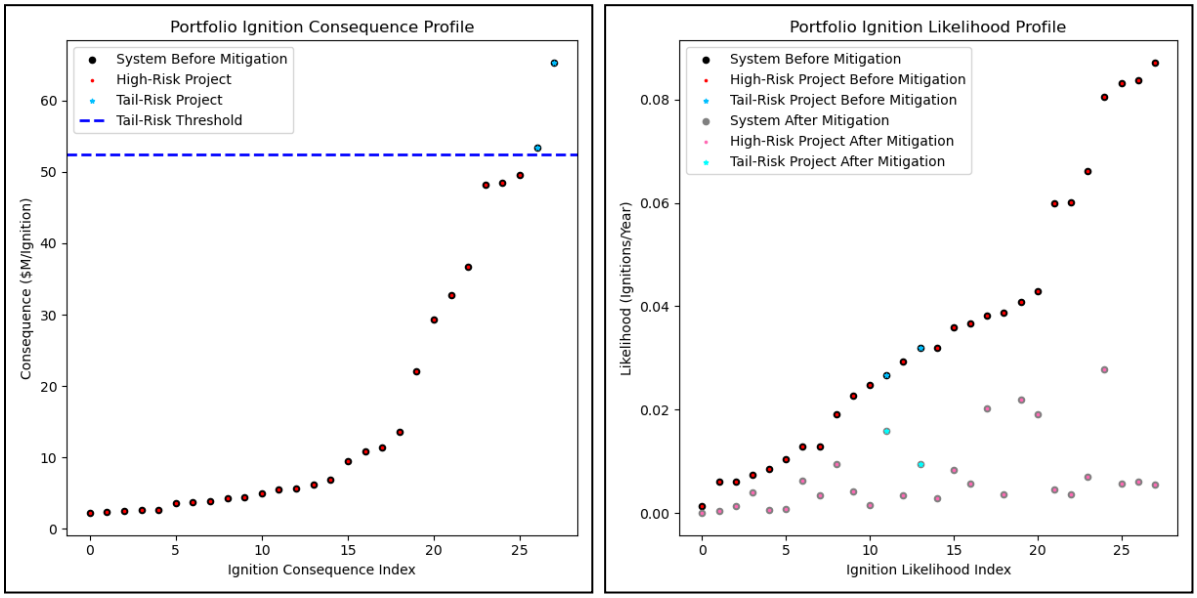


- Left: All Circuit Segments ordered from lowest to highest Ignition Consequence, with consequence scores shown on the y-axis (arbitrary units). The blue line represents the Ignition Tail Risk Threshold. Blue stars indicate Circuit Segments exceeding this threshold. Red dots represent high risk Circuit Segments selected based on overall Ignition Risk. Since undergrounding affects likelihood, but not consequence, this panel is unchanged by mitigation.
- Right: All Circuit Segments ordered from lowest to highest Ignition Likelihood. Red points and blue stars correspond to the same Circuit Segments shown in the left panel. Grey points show the modeled system after mitigation, with pink points and cyan stars representing undergrounded high risk and tail risk Circuit Segments, respectively.

8. Ignition Consequence and Likelihood (Portfolio)

Figure PCS-10 below presents Ignition Consequence and Ignition Likelihood profiles for Circuit Segments in the EUP Portfolio.

FIGURE PCS-10
PORTFOLIO IGNITION CONSEQUENCE AND LIKELIHOOD PROFILES

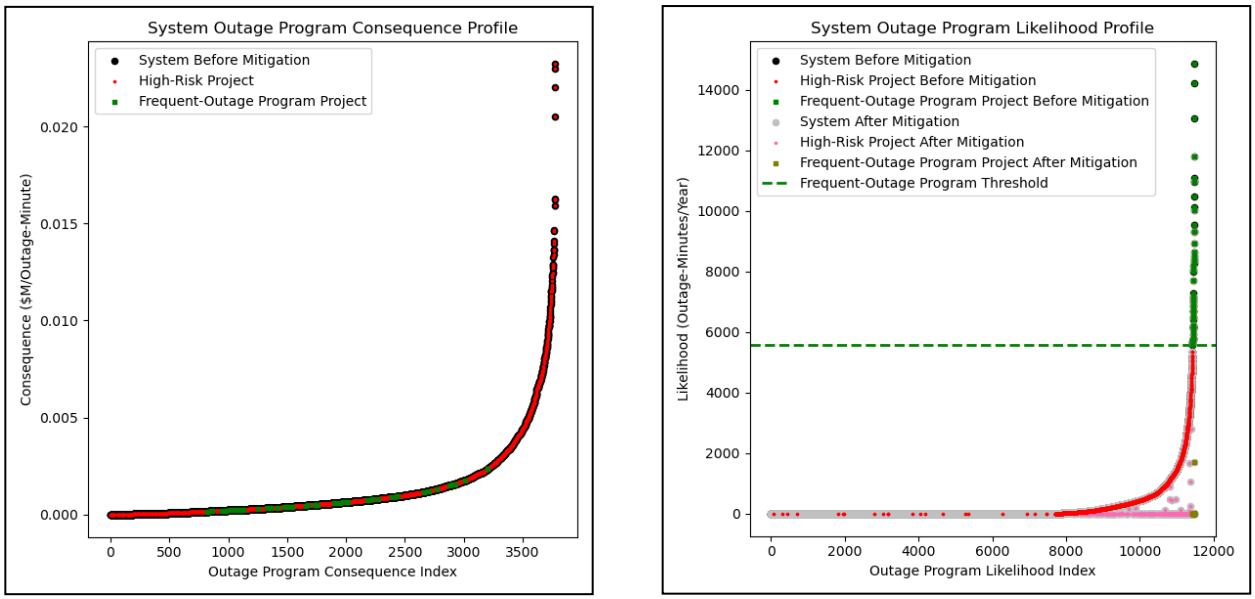


- Left: Portfolio Ignition Consequence.
- Right: Portfolio Ignition Likelihood.

9. Outage Program Consequence and Likelihood (System)

Figure PCS-11 below (based on Example Figure 10) presents Outage Program Consequence and Likelihood profiles for Circuit Segments selected using Outage Program Risk and Outage Program Consequence as KDMMs.

FIGURE PCS-11
OUTAGE PROGRAM CONSEQUENCE AND LIKELIHOOD PROFILES

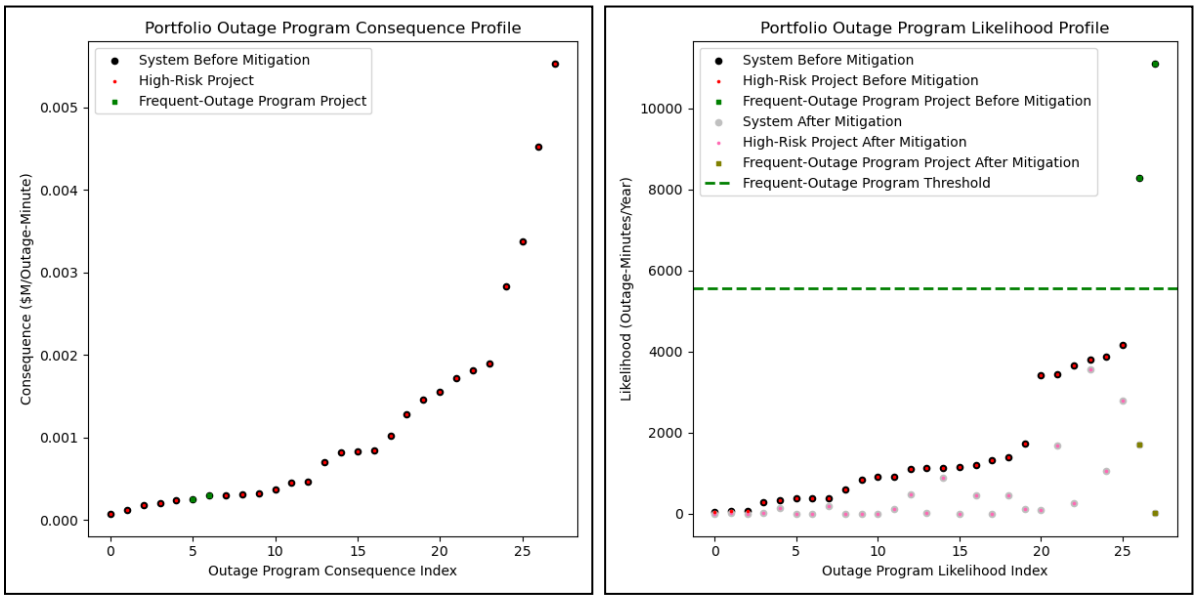


- Left: All Circuit Segments ordered from lowest to highest Outage Program Consequence, with consequence scores shown on the y-axis (arbitrary units). Green squares indicate Circuit Segments selected for undergrounding because their Outage Program Likelihood exceeds the High-Frequency Outage Program Threshold. Red dots represent high risk Circuit Segments selected based on overall Outage Program Risk. Since undergrounding affects likelihood, but not consequence, this panel is unchanged by mitigation.
- Right: All Circuit Segments ordered from lowest to highest Outage Program Likelihood. The green line represents the High-Frequency Outage Program Threshold. Green squares indicate pre-mitigation exceedances, and olive squares represent the same segments after mitigation. Grey points show the modeled system after mitigation, with pink points and olive stars highlighting undergrounded high risk and high-frequency outage Circuit Segments.

10. Outage Program Consequence and Likelihood (Portfolio)

Figure PCS-12 below presents Ignition Consequence and Ignition Likelihood profiles for Circuit Segments in the EUP Portfolio.

FIGURE PCS-12:
PORTFOLIO OUTAGE PROGRAM CONSEQUENCE AND LIKELIHOOD PROFILES



- Left: Portfolio Outage Program Consequence.
- Right: Portfolio Outage Program Likelihood.

D. Project Variable Modifiers (EUP Guidelines Section 2.7.7)

A Project Variable Modifier is defined as a set of changes that are made to variables in the Risk Modeling Methodology to evaluate the effectiveness of a given project or set of projects and represents how the Large Electrical Corporation values the efficacy of the Alternative Mitigations. The Large Electrical Corporation must list each Project Variable Modifier, explain how the specific PVM was calculated, and explain if and how the use of a specific PVM varies in different evaluations of the Model Risk Landscape. Specifically, the Large Electrical Corporation should provide a general description summarizing what input variables to what calculations are changed, and what is the effect on the output variables and KDMMs. This information may be reported on an average-case basis.

The Large Electrical Corporation must provide a high-level description of the formal numerical processes used to arrive at the PVM. If the Large Electrical Corporation employs third-party studies to get to the PVM, it must cite the studies here. If the PVM is the result of internal studies, then the Large Electrical Corporation must describe the datasets, and detail the formal calculations. The Large Electrical Corporation must also make the third-party studies and data available to Energy Safety upon request, both during the review of the EUP and anytime during the expected lifetime of the assets installed through the EUP.

PG&E uses PVMs to adjust certain inputs in risk models to demonstrate how individual Undergrounding Projects or groups of Projects reduce wildfire-related risk. (See PG&E's EUP Chapter 7, Section K for details of the PVM methodology.) The following section introduces these PVMs and their mitigation effectiveness.

1. Reporting PVMs (EUP Guidelines Section 2.8.5.2)

The EUP and each Progress Report (including Progress Report 0) must contain a table summarizing the PVMs as referenced in Section 2.7 and Section 2.8.6 of these Guidelines.

The "Mitigation Type" column describes the nature of the work conducted in the project. The Large Electrical Corporation must, at minimum, consider the Alternative Mitigations described in Section 2.7.10. It may include other alternative methods or divide these types of projects into differentiable sub types when appropriate.

The "Model" column indicates which models the PVM effects.

The "Inputs Modified" column describes which of the model inputs are changed.

The "Delta" column describes how the inputs are changed, and may be represented as percentages, changes in distribution, changes in category or any other changes to the inputs that the PVM accomplishes.

The "Other Notes" column contains narrative material that clarifies the way that the PVM affects the inputs.

The Large Electrical Corporation must report the effects of applying these PVMs to its Portfolio. The Large Electrical Corporation must compute the distribution of the changes to each KDMM for each mitigation type and report it in a table that will be attached to the Portfolio Coversheet.

PG&E defines PVMs as the values used in the WBCA to determine the effectiveness of an Alternative Mitigation at the sub-driver level. Table PCS-6 of the Portfolio Coversheet summarizes the PVM Inputs referenced in Sections 2.7 and 2.8.6 of the EUP Guidelines. Table PCS-6 captures Other Notes, which point to the relevant Workpapers that describe the sub-drivers to each input. Please refer to WP001 for a detailed description of the methodology used to calculate mitigation effectiveness values as shown in the Delta column.

Table PCS-7 includes PVM Outputs. In Table PCS-7, the "Change" column reflects the adjustment to the KDMM values resulting from the application of the mitigation relative to the baseline value. This metric is measured on a systemwide basis. The permanent system hardening mitigation alternatives evaluated in the EUP are modeled as reducing ignition likelihood only. Consequence values remain unchanged for these mitigations because they are driven by underlying factors such as terrain, weather, population exposure, etc. and are therefore represented as N/A. The "Variance" column reflects the variability in mitigation effectiveness across Circuit Segments relative to the systemwide average change shown in the "Change" column. For example, for OH, the systemwide change in Overall Utility Risk is -38%. However, at the Circuit Segment level, individual segment impacts may vary, ranging from -38% to +27%, relative to the systemwide average.

For each mitigation type, PG&E will report in the Portfolio Coversheet the changes to each KDMM resulting from the application of the PVMs. PG&E will update these results when Risk Model calibrations are made that materially affect PVM inputs, assumptions, or estimated mitigation effectiveness. See Chapter 7, Section K for additional information on PVMs and Chapter 8 for the Risk Model versioning and calibration schedule.

TABLE PCS-6
PROJECT VARIABLE MODIFIERS INPUTS

Line No.	Mitigation	Model	Input I.D.	Inputs Modified	Delta[(a)]	Other Notes
1	OH	Ignition Likelihood	1	Vegetation (Branch)	-49%	Attach. B, WP0015, Section 3.5.2.3.1
2			2	Vegetation (Trunk)	-25%	Attach. B, WP0015, Section 3.5.2.3.2
3			3	Vegetation (other)	-60%	Attach. B, WP0015, Section 3.5.2.3.3
4			4	Animal (Bird)	-65%	Attach. B, WP0015, Section 3.5.2.1.1
5			5	Animal (Squirrel)	-71%	Attach. B, WP0015, Section 3.5.2.1.2
6			6	Animal (other)	-64%	Attach. B, WP0015, Section 3.5.2.1.3
7			7	Third Party (Balloon)	-67%	Attach. B, WP0015, Section 3.5.2.2.1
8			8	Third Party (Vehicle)	-42%	Attach. B, WP0015, Section 3.5.2.2.2
9			9	Third Party (other)	-24%	Attach. B, WP0015, Section 3.5.2.2.3
10			10	Primary Conductor – Line Slap	-57%	Attach. B, WP0015, Section 3.5.1.4.1
11			11	Primary Conductor – Wire Down	-13%	Attach. B, WP0015, Section 3.5.1.4.2
12			12	Primary Conductor – Other	-54%	Attach. B, WP0015, Section 3.5.1.4.3
13			13	Secondary Conductor	-50%	Attach. B, WP0015, Section 3.5.1.5
14			14	Equipment (Support Structure)	-52%	Attach. B, WP0015, Section 3.5.1.6.2
15			15	Equipment (Transformer)	-74%	Attach. B, WP0015, Section 3.5.1.8.2
16			16	Equipment (Voltage Control)	-8%	Attach. B, WP0015, Section 3.5.1.9
17			17	Equipment (other)	-49%	Attach. B, WP0015, Section 3.5.1.10

TABLE PCS-6
PROJECT VARIABLE MODIFIERS INPUTS
(CONTINUED)

Line No.	Mitigation	Model	Input I.D.	Inputs Modified	Delta[(a)]	Other Notes
18	OH (cont.)	Ignition Likelihood (cont.)	18	Equipment (Capacitor)	-5%	Attach. B, WP0015, Section 3.5.1.1
19			19	Equipment (DPD)	-9%	Attach. B, WP0015, Section 3.5.1.2
20			20	Equipment (Fuse)	-57%	Attach. B, WP0015, Section 3.5.1.3
21			21	Equipment (Switch)	-56%	Attach. B, WP0015, Section 3.5.1.7
22		PSPS Likelihood[(b)]	1	N/A	0%	Attach. B, WP020, Section 3.7
23		EPSS Likelihood[(b)]	1	N/A	-52%	Attach. B, WP018, Section 3.3
24	UG Primary	Ignition Likelihood	1	Vegetation (Branch)	-95%	Attach. B, WP0015, Section 3.5.2.3.1
25			2	Vegetation (Trunk)	-95%	Attach. B, WP0015, Section 3.5.2.3.2
26			3	Vegetation (other)	-93%	Attach. B, WP0015, Section 3.5.2.3.3
27			4	Animal (Bird)	-100%	Attach. B, WP0015, Section 3.5.2.1.1
28			5	Animal (Squirrel)	-100%	Attach. B, WP0015, Section 3.5.2.1.2
29			6	Animal (other)	-98%	Attach. B, WP0015, Section 3.5.2.1.3
30			7	Third Party (Balloon)	-100%	Attach. B, WP0015, Section 3.5.2.2.1
31			8	Third Party (Vehicle)	-98%	Attach. B, WP0015, Section 3.5.2.2.2
32			9	Third Party (other)	-48%	Attach. B, WP0015, Section 3.5.2.2.3
33			10	Primary Conductor – Line Slap	-98%	Attach. B, WP0015, Section 3.5.1.4.1
34			11	Primary Conductor – Wire Down	-100%	Attach. B, WP0015, Section 3.5.1.4.2

TABLE PCS-6
PROJECT VARIABLE MODIFIERS INPUTS
(CONTINUED)

Line No.	Mitigation	Model	Input I.D.	Inputs Modified	Delta[(a)]	Other Notes
35	UG Primary (cont.)	Ignition Likelihood (cont.)	12	Primary Conductor – Other	-100%	Attach. B, WP0015, Section 3.5.1.4.3
36			13	Secondary Conductor	-50%	Attach. B, WP0015, Section 3.5.1.5
37			14	Equipment (Support Structure)	-100%	Attach. B, WP0015, Section 3.5.1.6.2
38			15	Equipment (Transformer)	-100%	Attach. B, WP0015, Section 3.5.1.8.2
39			16	Equipment (Voltage Control)	-95%	Attach. B, WP0015, Section 3.5.1.9
40			17	Equipment (other)	-86%	Attach. B, WP0015, Section 3.5.1.10
41			18	Equipment (Capacitor)	-81%	Attach. B, WP0015, Section 3.5.1.1
42			19	Equipment (DPD)	-94%	Attach. B, WP0015, Section 3.5.1.2
43			20	Equipment (Fuse)	-100%	Attach. B, WP0015, Section 3.5.1.3
44			21	Equipment (Switch)	-96%	Attach. B, WP0015, Section 3.5.1.7
45		PSPS Likelihood[(b)]	1	N/A	-100%	Attach B, WP020, Section 3.7
46		EPSS Likelihood[(b)]	1	N/A	-100%	Attach B, WP018, Section 3.3
47	Remote Grid	Ignition Likelihood	1	Vegetation (Branch)	-95%	Attach. B, WP0015, Section 3.5.2.3.1
48			2	Vegetation (Trunk)	-95%	Attach. B, WP0015, Section 3.5.2.3.2
49			3	Vegetation (other)	-93%	Attach. B, WP0015, Section 3.5.2.3.3
50			4	Animal (Bird)	-100%	Attach. B, WP0015, Section 3.5.2.1.1
51			5	Animal (Squirrel)	-100%	Attach. B, WP0015, Section 3.5.2.1.2

TABLE PCS-6
PROJECT VARIABLE MODIFIERS INPUTS
(CONTINUED)

Line No.	Mitigation	Model	Input I.D.	Inputs Modified	Delta[(a)]	Other Notes
52	Remote Grid (cont.)	Ignition Likelihood (cont.)	6	Animal (other)	-98%	Attach. B, WP0015, Section 3.5.2.1.3
53			7	Third Party (Balloon)	-100%	Attach. B, WP0015, Section 3.5.2.2.1
54			8	Third Party (Vehicle)	-98%	Attach. B, WP0015, Section 3.5.2.2.2
55			9	Third Party (other)	-48%	Attach. B, WP0015, Section 3.5.2.2.3
56			10	Primary Conductor - Line Slap	-98%	Attach. B, WP0015, Section 3.5.1.4.1
57			11	Primary Conductor - Wire Down	-100%	Attach. B, WP0015, Section 3.5.1.4.2
58			12	Primary Conductor - Other	-100%	Attach. B, WP0015, Section 3.5.1.4.3
59			13	Secondary Conductor	-50%	Attach. B, WP0015, Section 3.5.1.5
60			14	Equipment (Support Structure)	-100%	Attach. B, WP0015, Section 3.5.1.6.2
61			15	Equipment (Transformer)	-100%	Attach. B, WP0015, Section 3.5.1.8.2
62			16	Equipment (Voltage Control)	-95%	Attach. B, WP0015, Section 3.5.1.9
63			17	Equipment (other)	-86%	Attach. B, WP0015, Section 3.5.1.10
64			18	Equipment (Capacitor)	-81%	Attach. B, WP0015, Section 3.5.1.1
65			19	Equipment (DPD)	-94%	Attach. B, WP0015, Section 3.5.1.2
66			20	Equipment (Fuse)	-100%	Attach. B, WP0015, Section 3.5.1.3
67			21	Equipment (Switch)	-96%	Attach. B, WP0015, Section 3.5.1.7

TABLE PCS-6
PROJECT VARIABLE MODIFIERS INPUTS
(CONTINUED)

Line No.	Mitigation	Model	Input I.D.	Inputs Modified	Delta[a]	Other Notes
68	Remote Grid (cont.)	PSPS Likelihood[b]	1	N/A	-100%	Attach B, WP020, Section 3.7
69		EPSS Likelihood[b]	1	N/A	-100%	Attach B, WP018, Section 3.3

(a) Please refer to WP001 for a detailed description of the methodology used to calculate mitigation effectiveness values which are detailed in the Delta column.

(b) Mitigation Effectiveness for both PSPS Likelihood and EPSS Likelihood is applied uniformly across all circuit segments and is not evaluated at the sub-driver level.

TABLE PCS-7
PROJECT VARIABLE MODIFIERS OUTPUTS

Line No.	Mitigation	KDMM	Change[(a)]	Variance[(b)]
1	OH	Overall Utility Risk	-38%	-38% / +27%
2		Ignition Risk	-42%	-33% / +23%
3		Ignition Likelihood	-44%	-35% / +21%
4		Ignition Consequence	N/A	N/A
5		Outage Risk	-37%	-37% / +15%
6		Outage Likelihood	-19%	-19% / +33%
7		Outage Consequence	N/A	N/A
8	UG Primary	Overall Utility Risk	-98%	-30% / +2%
9		Ignition Risk	-93%	-24% / +7%
10		Ignition Likelihood	-92%	-24% / +7%
11		Ignition Consequence	N/A	N/A
12		Outage Risk	-100%	0%
13		Outage Likelihood	-100%	0%
14		Outage Consequence	N/A	N/A
15	Remote Grid	Overall Utility Risk	-98%	-30% / +2%
16		Ignition Risk	-93%	-24% / +7%
17		Ignition Likelihood	-92%	-24% / +7%
18		Ignition Consequence	N/A	N/A
19		Outage Risk	-100%	0%
20		Outage Likelihood	-100%	0%
21		Outage Consequence	N/A	N/A

(a) The “Change” column reflects the adjustment to the KDMM values resulting from the application of the mitigation relative to the baseline value. This metric is measured on a systemwide basis. The permanent system hardening mitigation alternatives evaluated in the EUP are modeled as reducing ignition likelihood only. Consequence values remain unchanged for these mitigations because they are driven by underlying factors such as terrain, weather, population exposure, etc. and are therefore represented as N/A.

(b) The “Variance” column reflects the variability in mitigation effectiveness across Circuit Segments relative to the systemwide average change shown in the “Change” column.

E. Portfolio Development (EUP Guidelines Section 2.8.6.3)

The Large Electrical Corporation must detail its system for tracking changes in the Portfolio of Undergrounding Projects over time as well as the consistency of its modeling updates.

The Large Electrical Corporation must track how its Portfolio of Undergrounding Projects has changed over the duration of the EUP by applying the most up-to-date modeling system version and calibration to each of the historical Portfolios considered during the lifetime of the EUP.

The Large Electrical Corporation must summarize this information in each Progress Report, including Progress Report 0, by creating two plots for each KDMM showing their mean value and first standard variation, measured over the total Portfolio footprint. The total Portfolio footprint is defined as the union of all Circuit Segments included in any Portfolio.

The first plot must show the instantaneous value of the KDMM after the EUP has been completed, as measured by the most recent version and calibration of Risk Modeling Methodology, compared to the Baseline at the beginning of the plan, as measured by the most recent version of the Risk Modeling Methodology.

The second plot must show the same metrics but measured by the version of the Risk Modeling Methodology that was most recent at the time the Portfolio was updated.

1. Tracking Changes in the Portfolio of Undergrounding Projects

We will show how the Portfolio changes over the life of the EUP by creating two plots for each KDMM, showing their mean value and first standard variation, measured over the Portfolio.

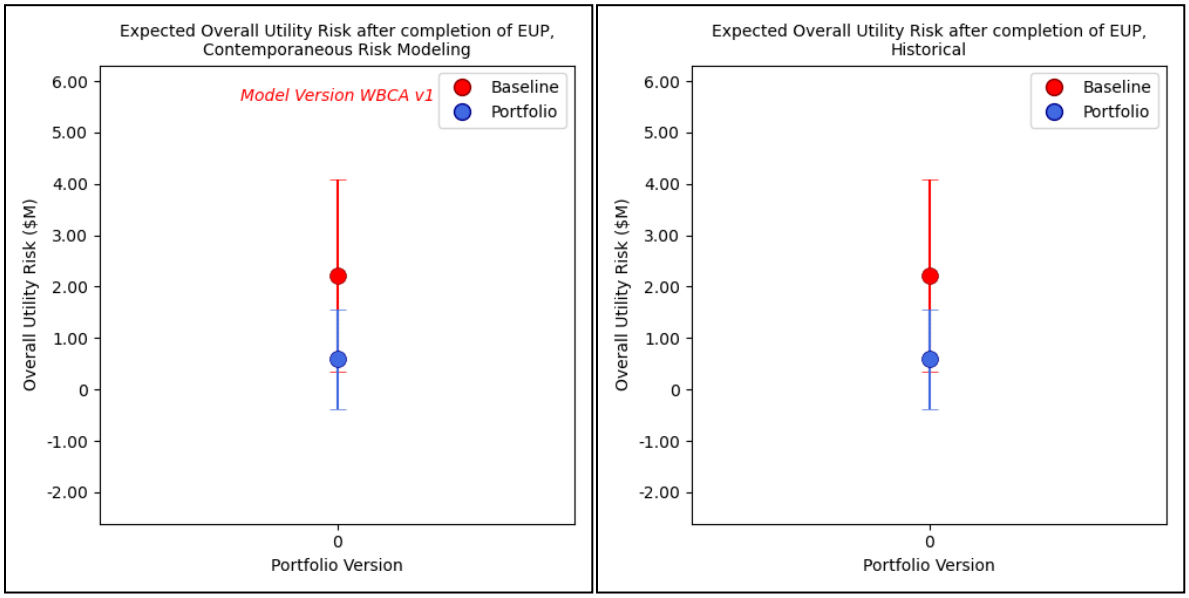
Figures PCS-13A through PCS-13E below present KDMM plots showing the mean value and first standard deviation, measured over the total Portfolio. This information will be updated and included in each subsequent Progress Report. Note that, due to EUP Guideline requirements for the figures below, the distributions are skewed; therefore, the mean and standard deviation are not representative of the distribution's center and spread.

Because Progress Report 0 is the initial report, only a single data point is represented in the figures below. As subsequent Progress Reports are filed, and additional data is plotted over time, the changes to the Portfolio of Undergrounding Projects will be observable.

a. Overall Utility Risk

Figure PCS-13A will illustrate the reductions in Overall Utility Risk as we implement Portfolio 0.

FIGURE PCS-13A
KDMM DEVELOPMENT: CHANGES IN PORTFOLIO OVERALL UTILITY RISK

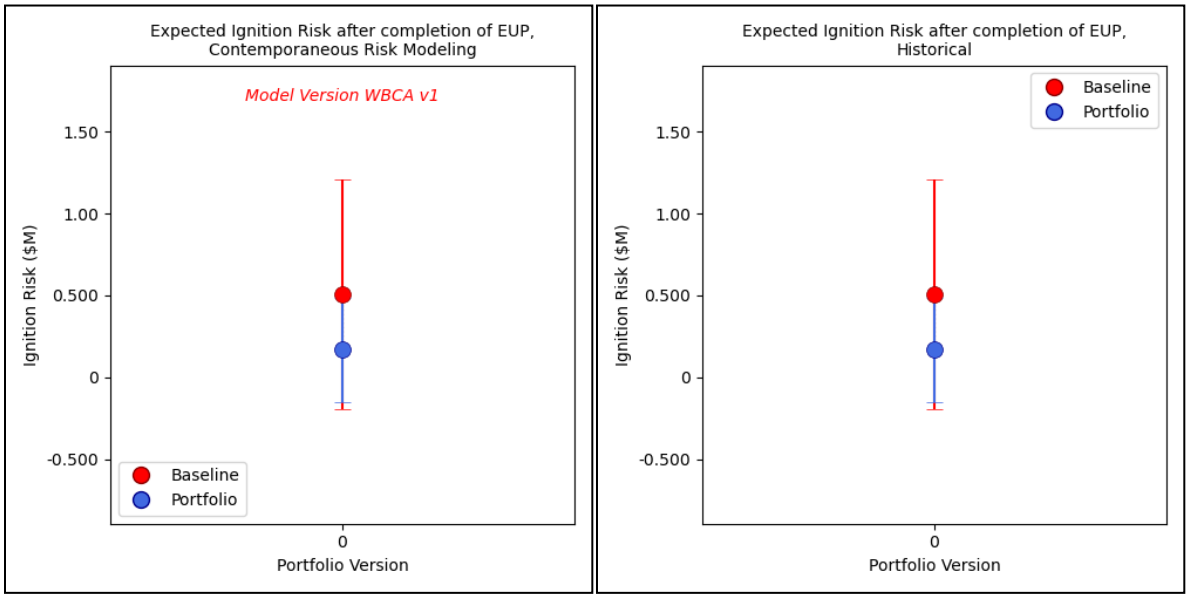


- Left: A plot showing the mean and standard deviation of the Overall Utility Risk's Baseline (red) and modeled value after EUP mitigation (blue) of Circuit Segments in the Portfolio, using the most recent version of the model, WBCA v1. The x-axis denotes the version of the Portfolio. Note that due to the skew of the risk distribution, mean and standard deviation are not representative of the center and spread of the distribution.
- Right: A plot showing the mean and standard deviation of the Overall Utility Risk's Baseline (red) and modeled value after EUP mitigation (blue) of Circuit Segments in the Portfolio, using the WBCA v1, which was most recent at the time the Portfolio was updated. Note that due to the skew of the risk distribution, mean and standard deviation are not representative of the center and spread of the distribution.

b. Ignition Risk

Figure PCS-13B will demonstrate reductions to system Ignition Risk following implementation of the EUP Portfolio 0.

FIGURE PCS-13B
KDMM DEVELOPMENT: CHANGES IN PORTFOLIO IGNITION RISK



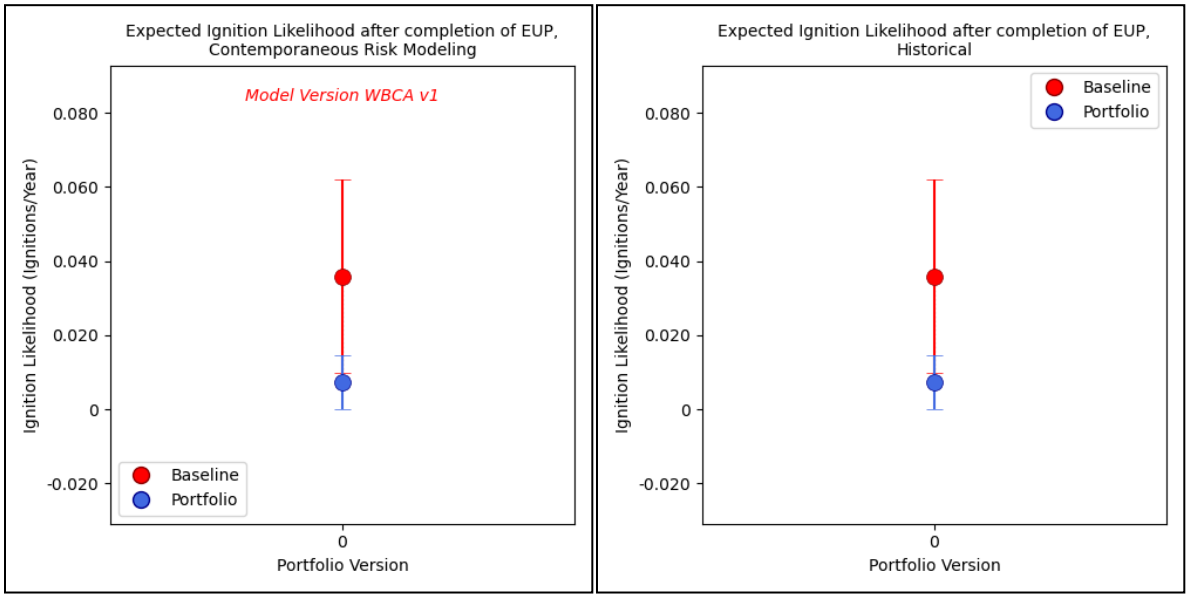
- Left: A plot showing the mean and standard deviation of the Ignition Risk's Baseline (red) and modeled value after EUP mitigation (blue) of Circuit Segments in the Portfolio, using the most recent version of the model, WBCA v1. The x-axis denotes a different version of the Portfolio.
- Right: A plot showing the mean and standard deviation of the Ignition Risk's Baseline (red) and modeled value after EUP mitigation (blue) of Circuit Segments in the Portfolio, using the WBCA v1, which was most recent at the time the Portfolio was updated.

c. Ignition Consequence and Likelihood

KDMM graphs are not produced for Ignition Consequence, as EUP mitigation minimally modifies the consequence of an ignition, thus the modeled value after EUP mitigation is unchanged.

Figure PCS-13C will indicate that the system's Ignition Likelihood declines with the implementation of the EUP Portfolio 0.

FIGURE PCS-13C
CHANGES IN PORTFOLIO IGNITION LIKELIHOOD

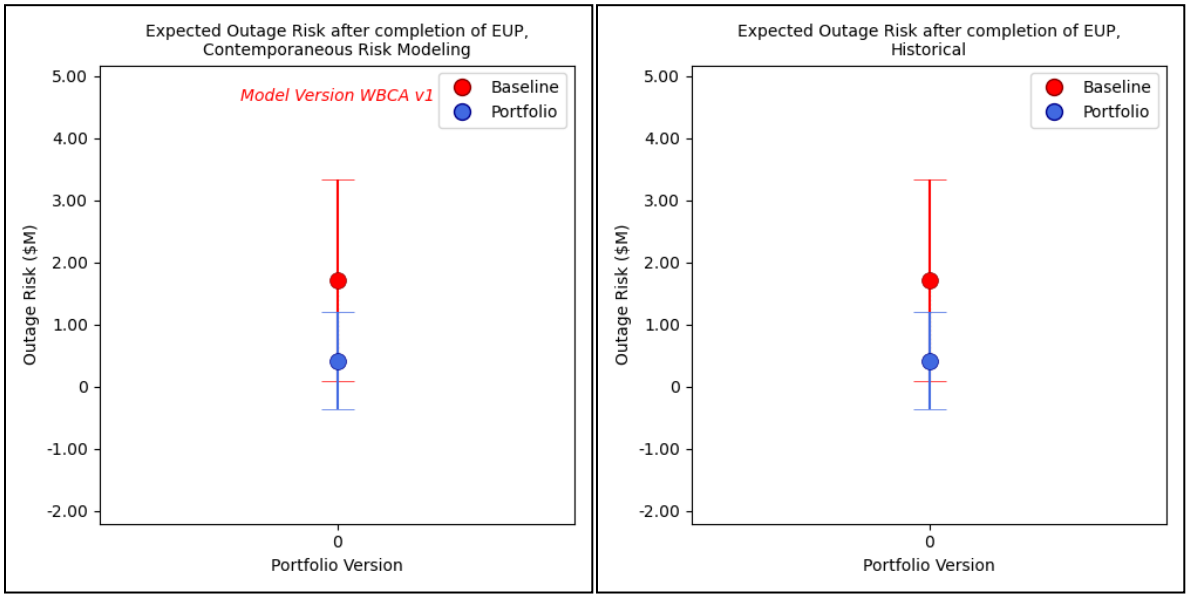


- Left: A plot showing the mean and standard deviation of the Ignition Likelihood's Baseline (red) and modeled value after EUP mitigation (blue) of Circuit Segments in the Portfolio, using the most recent version of the model, WBCA v1. The x-axis denotes a different version of the Portfolio. Note that due to the skew of the likelihood distribution, mean and standard deviation are not representative of the center and spread of the distribution.
- Right: A plot showing the mean and standard deviation of the Ignition Likelihood's Baseline (red) and modeled value after EUP mitigation (blue) of Circuit Segments in the Portfolio, using the WBCA v1, which was most recent at the time the Portfolio was updated. Note that due to the skew of the likelihood distribution, mean and standard deviation are not representative of the center and spread of the distribution.

d. Outage Program Risk

Figure PCS-13D shows a decrease in the system's Outage Program Risk associated with implementation of Portfolio 0.

FIGURE PCS-13D
KDMM DEVELOPMENT: CHANGES IN PORTFOLIO OUTAGE PROGRAM RISK



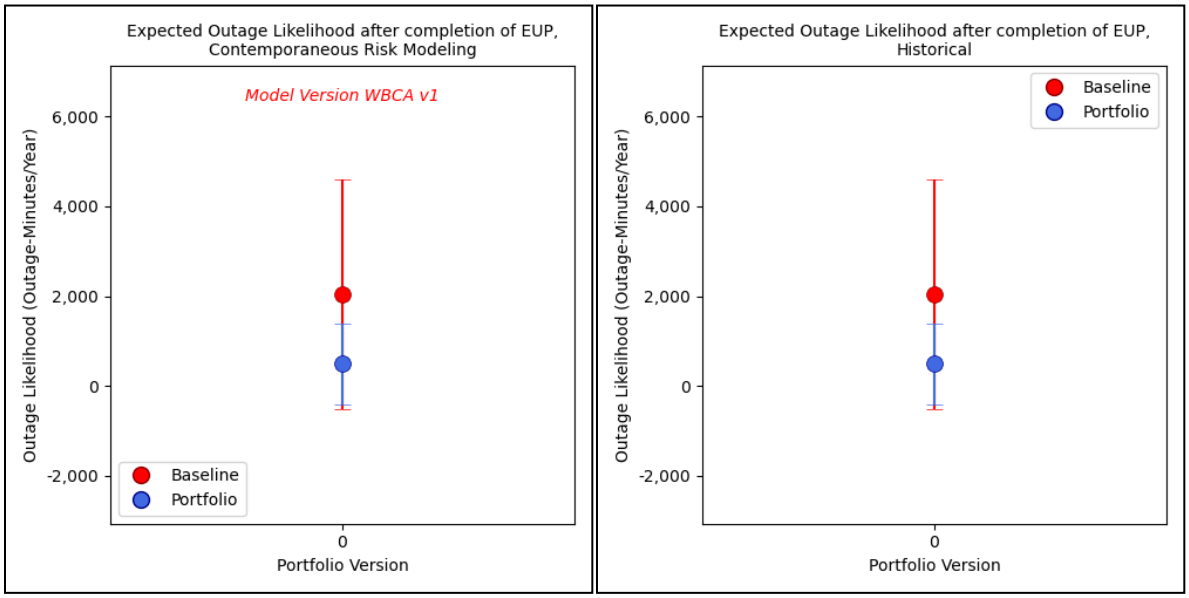
- Left: A plot showing the mean and standard deviation of the Outage Program Risk's Baseline (red) and modeled value after EUP mitigation (blue) of Circuit Segments in the Portfolio, using the most recent version of the model, WBCA v1. The x-axis denotes a different version of the Portfolio. Note that due to the skew of the risk distribution, mean and standard deviation are not representative of the center and spread of the distribution.
- Right: A plot showing the mean and standard deviation of the Outage Program Risk's Baseline (red) and modeled value after EUP mitigation (blue) of Circuit Segments in the Portfolio, using the WBCA v1, which was most recent at the time the Portfolio was updated. Note that due to the skew of the risk distribution, mean and standard deviation are not representative of the center and spread of the distribution.

e. Outage Program Consequence and Likelihood

KDMM graphs are not produced for Outage Program Consequence, as EUP mitigation does not modify the consequence of a PSPS or EPSS related outage, thus the modeled value after EUP mitigation is unchanged.

Figure PCS-13E reflects a reduction in the system's Outage Program Likelihood as a result of implementing Portfolio 0.

FIGURE PCS-13E
KDMM DEVELOPMENT: CHANGES IN PORTFOLIO OUTAGE PROGRAM LIKELIHOOD



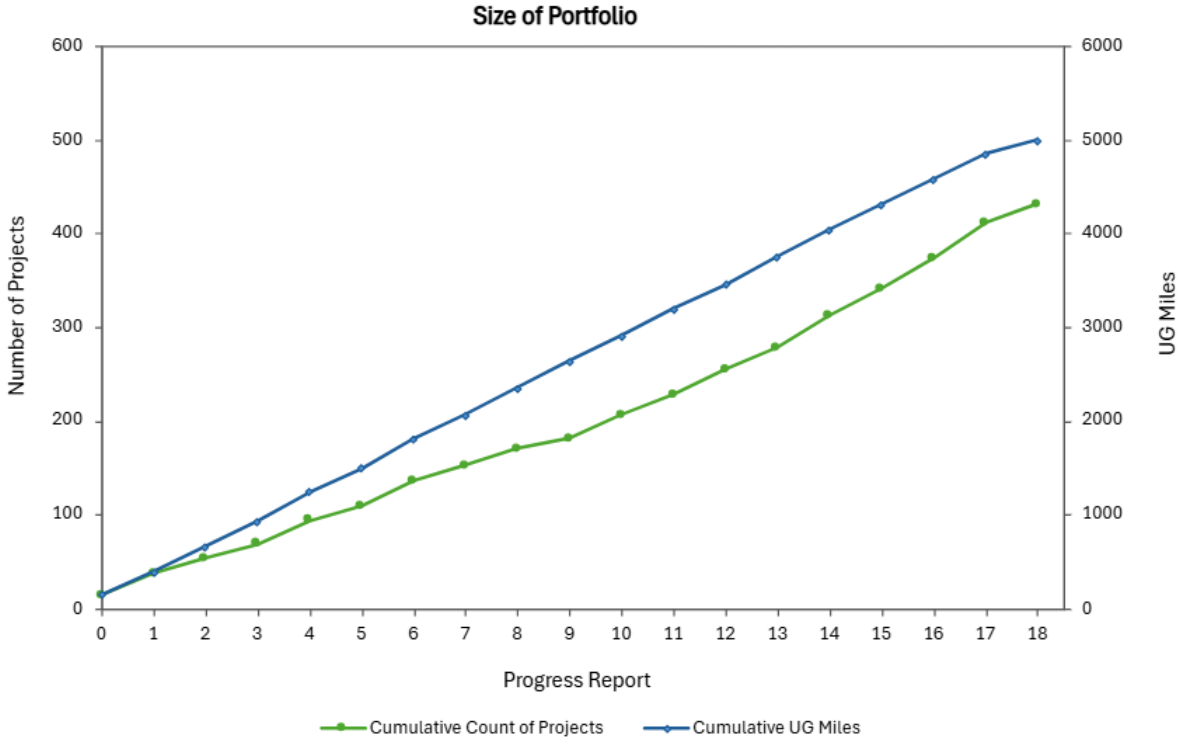
- Left: A plot showing the mean and standard deviation of the Outage Program Likelihood's Baseline (red) and modeled value after EUP mitigation (blue) of Circuit Segments in the portfolio, using the most recent version of the model, WBCA v1. The x-axis denotes a different version of the Portfolio. Note that due to the skew of the likelihood distribution, mean and standard deviation are not representative of the center and spread of the distribution.
- Right: A plot showing the mean and standard deviation of the Outage Program Likelihood's Baseline (red) and modeled value after EUP mitigation (blue) of Circuit Segments in the Portfolio, using the WBCA v1, which was most recent at the time the Portfolio was updated. Note that due to the skew of the likelihood distribution, mean and standard deviation are not representative of the center and spread of the distribution.

2. Size of Portfolio

Figure PCS-14, below, shows the size of the Portfolio based on the number of Undergrounding Projects and total underground circuit miles. It includes the first 28 Projects in Portfolio 0.

The projected growth shown in the graph assumes scoping approximately 45 underground miles per month, which drives the rate at which the Portfolio will expand over time.

FIGURE PCS-14
PORTFOLIO DEVELOPMENT OVER PROGRESS REPORT



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ATTACHMENT A-2

PROGRESS REPORT TABULAR DATA PLACEHOLDER

Attachment A-2: Progress Report Tabular Data includes the following files provided separately in the zip folder named PGE_Initial_2026-11-02_Tabular Data_R0:

Table C.1 Plan Table
Table C.2 KDMM Table
Table C.3 Risk Model Version History Table
Table C.4 Portfolio Table
Table C.5 Risk Model Backtesting Table
Table C.6 Circuit Segment Identification Table
Table C.8 Circuit Segment Risk Score Table
Table C.9 Screen History Table
Table C.10 Project Table
Table C.11 Screen 2 Table
Table C.12 Screen 3 Table
Table C.13 Screen 4 Table
Table C.14 Subproject Table
Table C.15 Project Index Table
Table C.22 Non-EUP Projects
Table C.23 Subproject Management Template
Table C.24 List of Fire Rebuild Area Table

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ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT A-3

JSON PROJECT VARIABLE MODIFIERS PLACEHOLDER

Attachment A-3: JSON Project Variable Modifiers include the following files provided separately in the zip folder named PGE_Initial_2026-09-30_PVM_R0.zip:

PGE_Initial_2026-09-30_PVM_R0.json
PGE_Initial_2026-09-30_PVM_R0.csv

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ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT A-4

JSON MODEL RISK LANDSCAPE PLACEHOLDER

Attachment A-4: JSON MODEL RISK LANDSCAPE includes the following files provided separately in the zip folder named PGE_Initial_2026-10-30_Projects_R0.zip:

PGE_Initial_2026-10-30_Projects_R0.json
PGE_Initial_2026-10-30_Projects_R0.csv

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT A-5

THE ATTACHMENT CONTAINS CONFIDENTIAL INFORMATION AND HAS BEEN PROVIDED SEPARATELY TO ENERGY SAFETY

Attachment A-5: GIS Data includes the following confidential files provided separately in the zip folder named PGE_Initial_2026-09-30_GIS Data_R0_CONF:

- Table C.16 Circuit Segment GIS Data
- Table C.17 Project GIS Data
- Table C.18 Pre-mitigation Overhead Conductor GIS Data
- Table C.19 Pre-mitigation Assets GIS Data
- Table C.20 Post-mitigation Conductor GIS Data
- Table C.21 Post-mitigation Assets GIS Data

The data is confidential as described in the confidentiality declaration included in the PGE_Initial_2026-09-30_GIS Data_R0_CONF zip folder.

Parties wishing to obtain this Attachment may contact PG&E at EUPinfo@pge.com to request a copy. The attachment will be provided after the party executes a nondisclosure agreement provided by PG&E.

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ATTACHMENT B

WORKPAPERS

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP001

MITIGATION EFFECTIVENESS ANALYSIS

Mitigation Effectiveness Analysis

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2.3.5. PCEEE Risk 14

Mitigation Effectiveness White Paper

1. WBCA 1.0 Mitigation Effectiveness Values for Undergrounding and Alternative Mitigations

1.1. Background

This White Paper documents the mitigation effectiveness values used to support circuit-segment-level comparisons of undergrounding and alternative mitigation strategies within PG&E's Wildfire Benefit Cost Analysis ("WBCA") model. This attachment documents the effectiveness assumptions applied to Wildfire Risk, Public Safety Power Shutoff ("PSPS") Risk, Enhanced Powerline Safety Settings ("EPSS") Risk, Baseline Outage Risk, and Public Contact with Intact Energized Electric Equipment ("PCEEE") Risk, so that the WBCA model can consistently evaluate each mitigation alternative across the risk categories included in the analysis.

Mitigation effectiveness represents the degree to which a mitigation measure reduces modeled risk. It provides a point estimate of how much risk is avoided or reduced as a result of implementing a specific Electric Undergrounding Plan ("EUP") mitigation alternative. These effectiveness values are informed by PG&E's Wildfire Mitigation Effectiveness Dataset, which evaluates mitigation performance based on historical outage combinations and associated ignition risk characteristics.[1]

Mitigation effectiveness is applied to baseline (unmitigated) risk to calculate residual (post-mitigation) risk. The effectiveness inputs reflect mitigation performance across a range of outage event combinations based on historical events observed in High Fire Thread District ("HFTD") areas and evaluated by Subject Matter Experts ("SMEs").

PG&E considered the following mitigation alternatives:

1. Undergrounding Primary Distribution Lines ("UG Primary")
2. Overhead Hardening ("OH")
3. Remote Grid

PG&E applied these mitigation alternatives to the following sources of risk:

1. Wildfire Risk
2. Public Safety Power Shutoff ("PSPS") Risk
3. Enhanced Powerline Safety Settings ("EPSS") Risk
4. Baseline Outage Risk
5. Public Contact with Intact Energized Electric Equipment ("PCEEE") Risk

Mitigation effectiveness plays two primary roles within the Wildfire Benefit Cost Analysis ("WBCA") Model. First, mitigation effectiveness is used to quantify benefits included in

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[1] See Attach. B, WP006 (WBCA Whitepaper), Section 2.3.

the Benefit-Cost Ratio ("BCR").[2] Second, it is used to determine the amount of Overall Utility Risk ("OUR") reduced, including subsets of OUR reduction such as ignition risk and outage program risk.[3] Both applications rely on the same underlying mitigation effectiveness assumptions and values. The inputs and outputs of the WBCA model are intended to support mitigation selection in PG&E's EUP.[4]

2. Mitigation Effectiveness Methodology

2.1. UG Primary

2.1.1. Wildfire Risk

- **Systemwide Average Mitigation Effectiveness:** 98%

- **Methodology:** The Wildfire Mitigation Effectiveness Analysis evaluates outage data from 2015 through 2024. Each outage is characterized using four attributes that, when combined, create a unique outage profile:

  a. Basic cause (e.g., vegetation)
  b. Supplemental cause (e.g., tree branch contacting line)
  c. Equipment involved (e.g., overhead conductor)
  d. Equipment condition (e.g., normal, broken, wire on ground)

  These attribute combinations allow SMEs to review outages with similar characteristics and qualitatively assess mitigation effectiveness. The Mitigation Percentage in the table below describes how effective the mitigation alternative would be in preventing ignition from each unique outage scenario. SMEs assign one of the following Effectiveness Levels to each unique outage scenario:

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2 See Attach. B, WP006 (WBCA Whitepaper), Section 3.1.

3 See Attach. B, WP006 (WBCA Whitepaper), Sections 2.3 and 3.1.4-3.1.5.

4 See Attach. B, WP006 (WBCA Whitepaper), Section 1.1.

Effectiveness Level	Mitigation Percentage	SME Qualitative Rationale
None	0%	Will not affect the likelihood of a certain type of outage resulting in an ignition
Low	20%	Reduces likelihood minimally of a certain type of outage resulting in an ignition
Medium	40%	Reduces likelihood moderately of a certain type of outage resulting in an ignition
Medium-High	60%	Better than average likelihood of reducing a certain type of outage resulting in an ignition
High	70%	Significant reduction in likelihood, however, there is still a chance for outage events resulting in an ignition
Very High	90%	Addresses most outage concerns, but still leaves potential for outage events resulting in an ignition
All	100%	Eliminates likelihood of a certain type of outage occurring resulting in an ignition

To determine circuit-segment-level mitigation effectiveness, SMEs assign mitigation effectiveness values to unique outage scenarios defined by combinations of outage attributes (e.g., Basic Cause, Supplemental Cause, Equipment Type, and Equipment Condition), referred to as "failure modes." These failure mode effectiveness values are subsequently mapped to the 21 ignition likelihood sub drivers used in WDRM Version 4 and aggregated to develop a representative effectiveness value for each driver. The resulting driver-level effectiveness values are then applied to the corresponding ignition likelihood components for each circuit segment. Because each circuit segment has a unique ignition likelihood profile across the 21 sub-drivers, the mitigation effectiveness values are combined using a weighted-average approach based on each driver's relative contribution to ignition likelihood on that circuit segment. This produces a circuit-specific mitigation effectiveness value that reflects both the mitigation's ability to address individual failure mechanisms and the risk characteristics of the circuit segment being evaluated. Based on Energy Safety's direction that EPSS be treated as operational in the baseline condition, wildfire mitigation effectiveness is measured relative to a system where EPSS is already in place, rather than against an unmitigated overhead system. Because EPSS is assumed to reduce approximately 60% of wildfire risk, undergrounding receives credit only for the incremental reduction in residual risk beyond that baseline.

As an example, if undergrounding reduces wildfire risk by approximately 98% relative to an unmitigated overhead system, the incremental reduction beyond the

EPSS baseline is 98% - 60% = 38%. Because EPSS has already reduced risk by 60%, only 40% of the original risk remains, calculated as 100% - 60% = 40%. Therefore, the incremental effectiveness of undergrounding against that residual risk would be 38% / 40% = 95%. Accordingly, while undergrounding continues to reduce approximately 98% of wildfire risk where applied, it is credited with approximately 95% effectiveness against the residual wildfire risk that remains after EPSS has already been applied. This example is intended solely to illustrate the baseline adjustment methodology using representative systemwide averages. Actual circuit-segment-level mitigation effectiveness will vary based on the relative weighting of the 21 ignition likelihood drivers for the specific project being evaluated. Consequently, project-specific incremental effectiveness values may be higher or lower than the average 95% value depending on the circuit segment's unique ignition risk profile and the mitigation's effectiveness against the drivers contributing to that risk. This approach ensures that benefits are not double counted and that each mitigation is evaluated based on the additional risk reduction it provides relative to existing operations.

2.1.2. PSPS Risk

- **Systemwide Average Mitigation Effectiveness:** 100%

- **Methodology:** The UG Primary mitigation is assumed to fully eliminate PSPS risk by removing the overhead infrastructure that necessitates PSPS events under elevated fire potential conditions. As described in the PSPS Risk Model Documentation,[5] the PSPS risk attributed to a given circuit segment already reflects both network effects and the geographic extent of weather events. Specifically, the risk assigned to a circuit segment is apportioned across upstream circuit segments and accounts for the fact that PSPS events do not always encompass an entire circuit, with scope varying based on the location and extent of the underlying weather conditions. Consequently, the risk attributed to a circuit segment has already been discounted to recognize that some outage risk cannot be fully eliminated until upstream circuit segments are also mitigated and that only portions of a circuit may be affected during a given PSPS event. Additionally, consistent with the PSPS Risk Model Documentation, all outage risk associated with a PSPS event, including outages experienced on the circuit segment itself and on downstream segments due to upstream de-energization, is attributed to the applicable circuit segment.

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5 See Attach. B, WP020 (EUP PSPS v1 Risk Model Documentation), Section 3.1.

2.1.3. EPSS Risk

- **Systemwide Average Mitigation Effectiveness:** 100%

- **Methodology:** UG Primary is assumed to fully eliminate EPSS events where installed. Therefore, EPSS risk is treated as 100% mitigated under this alternative.

2.1.4. Baseline Outage Risk

- **Systemwide Average Mitigation Effectiveness:** 71%

- **Methodology:** The estimated Baseline Outage (i.e., non-PSPS and non-EPSS caused) mitigation effectiveness of undergrounding primary Distribution Overhead assets is evaluated by comparing historic reliability indices (SAIDI) attributed to Distribution Overhead and Distribution Underground assets normalized by their respective mileages.

    - **Reliability Indices (SAIDI):** Historic Reliability Indices (SAIDI) data attributed to outages on Distribution Overhead and Distribution Underground assets are summed to yield $S(SAIDI_{OH})$ and $S(SAIDI_{UG})$, respectively. Outage events considered in the Reliability Indices dataset pertain to Distribution Circuit & Transformer-Only outages; excluding Planned, PSPS, and Independent System Operator ("ISO") outages; and including Major Event Day ("MED") outages and EPSS outages.

    - **Exposure (Mileage):** End-of-year primary line mileages for 2018 through 2024 are obtained from a Geographic Information Systems Analytics Intake Application ("GAIA") data pull performed on January 24, 2025 utilizing fields 'OHMILES' and 'UGMILES' from the data group 'PGE OWNED (ALL)'. The Mileages are then summed across years 2018 through 2024 for Distribution Overhead ('OHMILES') and Distribution Underground ('UGMILES'), yielding $S(Mileage_{OH})$ and $S(Mileage_{UG})$, respectively.

With the preceding parameters, mitigation effectiveness is evaluated as:

Formula

$$\boldsymbol{Mitigation\ Effectiveness} = \frac{(r_{OH} - r_{UG})}{r_{OH}} = 1 - \frac{r_{UG}}{r_{OH}}$$

$$where, for\ example, r_{OH} = \frac{S(SAIDI_{OH})}{S(Mileage_{OH})}$$

2.1.5. Public Contact with Intact Energized Electric Equipment (PCEEE) Risk

- **Systemwide Average Mitigation Effectiveness:** 54%

- **Methodology:** The estimated PCEEE mitigation effectiveness for UG Primary is evaluated by comparing historic rates of Equivalent Fatalities (EFAT) attributed to Distribution Overhead and Distribution Underground assets normalized by their respective mileages.

    - **Equivalent Fatalities (EFAT):** Historic Electric Incident Report (EIR) data from 2012 through 2024 is reviewed to identify events attributed to Distribution Overhead and Distribution Underground asset families ('DOVHD' and 'DUNDG,' respectively) that occurred from 2018 through 2024.

      The EFAT values are then summed across years 2018 through 2024 for incidents attributed to Distribution Overhead and Distribution Underground assets, yielding $S(EFAT_{OH})$ and $S(EFAT_{UG})$, respectively.

Formula

$$\boldsymbol{EFAT} = \text{Fatalaties} + (0.25 \text{ x Serious Injuries})$$

Where a Serious Injury equates to 25% of an Equivalent Fatality.

    - **Exposure (Mileage):** End-of-year primary line mileages for 2018 through 2024 are obtained from a Geographic Information Systems Analytics Intake Application ("GAIA") data pull performed on January 24, 2025 utilizing fields 'OHMILES' and 'UGMILES' from the data group 'PGE OWNED (ALL)'. The mileages are then summed across years 2018 through 2024 for Distribution Overhead ('OHMILES') and Distribution Underground ('UGMILES'), yielding $S(Mileage_{OH})$ and $S(Mileage_{UG})$, respectively.

With the preceding parameters, mitigation effectiveness is evaluated as:

Formula

$$\textbf{Mitigation Effectiveness} = \frac{(r_{OH} - r_{UG})}{r_{OH}} = 1 - \frac{r_{UG}}{r_{OH}}$$

$$where, for\ example, r_{OH} = \frac{S(EFAT_{OH})}{S(Mileage_{OH})}$$

2.2. Remote Grid

2.2.1. Wildfire Risk

Systemwide Average Mitigation Effectiveness: 98%. Please note, wildfire risk mitigation effectiveness is the same for both the Remote Grid and UG Primary alternatives as each option removes the existing primary overhead line, thereby eliminating the same source of ignition risk. Consequently, both alternatives are assigned the same mitigation effectiveness value.

Methodology: The Wildfire Mitigation Effectiveness Analysis evaluates outage data from 2015 through 2024. Each outage is characterized using four attributes that, when combined, create a unique outage profile:

1. Basic cause (e.g., vegetation)
2. Supplemental cause (e.g., tree branch contacting line)
3. Equipment involved (e.g., overhead conductor)
4. Equipment condition (e.g., normal, broken, wire on ground)

These attribute combinations allow Subject Matter Experts ("SMEs") to review outages with similar characteristics and qualitatively assess mitigation effectiveness. The Mitigation Percentage in the table below describes how effective the mitigation alternative would be in preventing ignition from each unique outage scenario. SMEs assign one of the following Effectiveness Levels to each unique outage scenario:

Effectiveness Level	Mitigation Percentage	SME Qualitative Rationale
None	0%	Will not affect the likelihood of a certain type of outage resulting in an ignition
Low	20%	Reduces likelihood minimally of a certain type of outage resulting in an ignition
Medium	40%	Reduces likelihood moderately of a certain type of outage resulting in an ignition
Medium-High	60%	Better than average likelihood of reducing a certain type of outage resulting in an ignition
High	70%	Significant reduction in likelihood, however, there is still a chance for outage events resulting in an ignition
Very High	90%	Addresses most outage concerns, but still leaves potential for outage events resulting in an ignition
All	100%	Eliminates likelihood of a certain type of outage resulting in an ignition

To determine circuit-segment-level mitigation effectiveness, SMEs assign mitigation effectiveness values to unique outage scenarios defined by combinations of outage attributes (e.g., Basic Cause, Supplemental Cause, Equipment Type, and Equipment Condition), referred to as "failure modes." These failure mode effectiveness values are subsequently mapped to the 21 ignition likelihood drivers used in WDRM Version 4 and aggregated to develop a representative effectiveness value for each driver. The resulting driver-level effectiveness values are then applied to the corresponding ignition likelihood components for each circuit segment. Because each circuit segment has a unique ignition likelihood profile across the 21 sub-drivers, the mitigation effectiveness values are combined using a weighted-average approach based on each driver's relative contribution to ignition likelihood on that circuit segment. This produces a circuit-specific mitigation effectiveness value that reflects both the mitigation's ability to address individual failure mechanisms and the risk characteristics of the circuit segment being evaluated.

Based on Energy Safety's direction that EPSS be treated as operational in the baseline condition, wildfire mitigation effectiveness is measured relative to a system where EPSS is already in place, rather than against an unmitigated overhead system. Because EPSS is assumed to reduce approximately 60% of wildfire risk, Remote Grid receives credit only for the incremental reduction in

residual risk beyond that baseline. As an example, if Remote Grid reduces wildfire risk by approximately 98% relative to an unmitigated overhead system, the incremental reduction beyond the EPSS baseline is 98% - 60% = 38%. Because EPSS has already reduced risk by 60%, only 40% of the original risk remains, calculated as 100% - 60% = 40%. The incremental effectiveness of Remote Grid against that residual risk is therefore 38% / 40% = 95%. Accordingly, while Remote Grid continues to reduce approximately 98% of wildfire risk relative to an unmitigated overhead system, it is credited with approximately 95% effectiveness against the residual wildfire risk that remains after EPSS has already been applied. This example is intended solely to illustrate the baseline adjustment methodology using representative systemwide averages. Actual circuit-segment-level mitigation effectiveness will vary based on the relative weighting of the 21 ignition likelihood drivers for the specific project being evaluated. Consequently, project-specific incremental effectiveness values may be higher or lower than the average 95% value depending on the circuit segment's unique ignition risk profile and the mitigation's effectiveness against the drivers contributing to that risk. This approach ensures that benefits are not double counted and that each mitigation is evaluated based on the additional risk reduction it provides relative to existing operations.

2.2.2. PSPS Risk

- **Systemwide Average Mitigation Effectiveness:** 100%

- **Methodology:** The Remote Grid mitigation alternative is assumed to fully eliminate the need for PSPS events by removing reliance on overhead infrastructure that creates wildfire ignition risk under high-risk weather conditions. Furthermore, Remote Grid systems are electrically isolated and not connected to the broader grid environment through which PSPS events are typically implemented. As a result, the underlying conditions that necessitate PSPS as an operational mitigation are not present under this alternative.

2.2.3. EPSS Risk

- **Systemwide Average Mitigation Effectiveness:** 100%

- **Methodology:** Remote Grid is assumed to fully eliminate EPSS events where applied. Therefore, EPSS risk is treated as 100% mitigated under this alternative.

2.2.4. Baseline Outage Risk

- **Systemwide Average Mitigation Effectiveness:** 0%

- **Methodology:** Mitigation effectiveness for Baseline Outage Risk under the Remote Grid mitigation alternative is assumed to be 0%. When outages occur within a remote grid configuration, they are often significant in scope and may require specialized personnel and extended travel times to complete repairs. As a result, outage durations may not be reduced relative to baseline conditions.

  Given these factors, and the limited historical performance data available for remote grid systems, PG&E does not currently have sufficient evidence to support a measurable improvement in baseline annual outage duration (e.g., SAIDI) for customers served by remote grids. Accordingly, no mitigation benefit is attributed to Baseline Outage Risk under this alternative

2.2.5. PCEEE Risk

- **Systemwide Average Mitigation Effectiveness:** 0%

- **Methodology:** Mitigation effectiveness for PCEEE risk under the Remote Grid mitigation alternative is assumed to be 0%, as the configuration does not reduce or eliminate the presence of energized electrical equipment or the potential for public interaction with that equipment.

2.3. OH

2.3.1. Wildfire Risk

- **Systemwide Average Mitigation Effectiveness:** 79%[6]

- **Methodology:** The Wildfire Mitigation Effectiveness Analysis evaluates outage data from 2015 through 2024. Each outage is characterized using four attributes that, when combined, create a unique outage profile:

  1. Basic cause (e.g., vegetation)
  2. Supplemental cause (e.g., tree branch contacting line)
  3. Equipment involved (e.g., overhead conductor)
  4. Equipment condition (e.g., normal, broken, wire on ground)

---

6 This effectiveness value reflects Overhead Hardening deployed in conjunction with EPSS/DCD. Because EPSS/DCD is assumed to be operational in the baseline condition, only the incremental risk reduction attributable to Overhead Hardening is captured in the resulting calculations.

These attribute combinations allow SMEs to review outages with similar characteristics and qualitatively assess mitigation effectiveness. The Mitigation Percentage in the table below describes how effective the mitigation alternative would be in preventing ignition from each unique outage scenario. SMEs assign one of the following Effectiveness Levels to each unique outage scenario:

Effectiveness Level	Mitigation Percentage	SME Qualitative Rationale
None	0%	Will not affect the likelihood of a certain type of outage resulting in an ignition
Low	20%	Reduces likelihood minimally of a certain type of outage resulting in an ignition
Medium	40%	Reduces likelihood moderately of a certain type of outage resulting in an ignition
Medium-High	60%	Better than average likelihood of reducing a certain type of outage resulting in an ignition
High	70%	Significant reduction in likelihood, however, there is still a chance for outage events resulting in an ignition
Very High	90%	Addresses most outage concerns, but still leaves potential for outage events resulting in an ignition
All	100%	Eliminates likelihood of a certain type of outage occurring resulting in an ignition

To determine circuit-segment-level mitigation effectiveness, SMEs assign mitigation effectiveness values to unique outage scenarios defined by combinations of outage attributes (e.g., Basic Cause, Supplemental Cause, Equipment Type, and Equipment Condition), referred to as "failure modes." These failure mode effectiveness values are subsequently mapped to the 21 ignition likelihood drivers used in WDRM Version 4 and aggregated to develop a representative effectiveness value for each driver. The resulting driver-level effectiveness values are then applied to the corresponding ignition likelihood components for each circuit segment. Because each circuit segment has a unique ignition likelihood profile across the 21 sub-drivers, the mitigation effectiveness values are combined using a weighted-average approach based on each driver's relative contribution to ignition likelihood on that circuit segment. This produces a circuit-specific mitigation effectiveness value that reflects both the mitigation's ability to address individual failure mechanisms and the risk characteristics of the circuit segment being evaluated.

Based on Energy Safety's direction that EPSS be treated as operational in the baseline condition, wildfire mitigation effectiveness is measured relative to a

system where EPSS is already in place, rather than against an unmitigated overhead system. Because EPSS is assumed to reduce approximately 60% of wildfire risk, OH paired with EPSS receives credit only for the incremental reduction in residual risk beyond that baseline. As an example, if OH paired with EPSS reduces wildfire risk by approximately 79% relative to an unmitigated overhead system, the incremental reduction beyond the EPSS baseline is 79% - 60% = 19%. Because EPSS has already reduced risk by 60%, only 40% of the original risk remains, calculated as 100% - 60% = 40%. The incremental effectiveness of OH against that residual risk is therefore 19% / 40% = 47.5%. Accordingly, while OH paired with EPSS reduces approximately 79% of wildfire risk, this mitigation alternative is credited only for the incremental effectiveness against the residual wildfire risk that remains after EPSS has already been applied. This example is intended solely to illustrate the baseline adjustment methodology using representative systemwide averages. Actual circuit-segment-level mitigation effectiveness will vary based on the relative weighting of the 21 ignition likelihood drivers for the specific project being evaluated. Consequently, project-specific incremental effectiveness values may be higher or lower than the average 47.5% value depending on the circuit segment's unique ignition risk profile and the mitigation's effectiveness against the drivers contributing to that risk. This approach ensures that benefits are not double counted and that each mitigation is evaluated based on the additional risk reduction it provides relative to existing operations.

2.3.2. PSPS Risk

- **Systemwide Average Mitigation Effectiveness:** 0%

- **Methodology:** The OH mitigation alternative does not reduce PSPS risk. This is because this mitigation alternative does not eliminate the underlying wildfire risk conditions that necessitate PSPS events as an operational mitigation. As a result, PSPS deployment would still be required under high-risk weather and system conditions, and no reduction in PSPS risk is attributed under this mitigation alternative.

2.3.3. EPSS Risk

- **Systemwide Average Mitigation Effectiveness:** 52%

- **Methodology:** The OH mitigation effectiveness methodology for EPSS risk is consistent with the methodology applied for Baseline Outage Risk under the OH mitigation configuration detailed below in Section 2.3.4. Accordingly, this mitigation alternative results in a 52% reduction in EPSS risk.

2.3.4. Baseline Outage Risk

- **Systemwide Average Mitigation Effectiveness:** 52%

- **Methodology:** The Baseline Outage mitigation effectiveness analysis evaluates outage data from 2015 through 2024. Each outage is characterized using four attributes that, when combined, create a unique outage profile:

    - Basic cause (e.g., vegetation)
    - Supplemental cause (e.g., tree branch contacting line)
    - Equipment involved (e.g., overhead conductor)
    - Equipment condition (e.g., normal, broken, wire on ground)

  These unique combinations allow Subject Matter Experts ("SMEs") to efficiently review outages with similar characteristics and quantitatively assess mitigation effectiveness. The effectiveness rating describes how effective the mitigation alternative would be in preventing ignition from each unique outage profile. SMEs assign one of the following effectiveness levels to each unique outage profile:

Effectiveness Level	Mitigation Percentage	SME Qualitative Rationale
None	0%	Will not affect the likelihood of a certain type of outage
Low	20%	Reduces likelihood minimally of a certain type of outage
Medium	40%	Reduces likelihood moderately of a certain type of outage
Medium-High	60%	Better than average likelihood of preventing a certain type of outage
High	70%	Significant reduction in likelihood, however, there is still a chance for outage events
Very High	90%	Addresses most outage concerns, but still leaves potential for outage events
All	100%	Eliminates likelihood of a certain type of outage

  These mitigation percentages are then combined across all outage profiles to produce a single, aggregated mitigation effectiveness of 52% for Baseline Outage Risk.

2.3.5. PCEEE Risk

- **Systemwide Average Mitigation Effectiveness:** 0%

Methodology: The OH mitigation alternative does not reduce PCEEE risk. This is because this mitigation alternative is primarily designed to address ignition related risks and system reliability risk, rather than risks associated with direct public interaction with equipment. As a result, the underlying exposure and hazard conditions that drive PCEEE risk remain unchanged under this mitigation alternative, and no reduction in PCEEE risk is attributed.

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP002

EUP TARGET/TIMELINE TABLE

Workpaper 002
Pacific Gas and Electric Company
Electrical Undergrounding Program
Target/Timeline Table

Year of EUP	Date Range	UG Miles Completed[a]	OH Miles Deenergized	Cumulative UG Miles Completed	Preconstruction Miles[b]	Unit Cost Escalated[c]	Unit Cost Unescalated[c]	Change Instantaneous Wildfire Risk at Year 10[d][e]	Change in Cumulative Wildfire Risk Over 55 Years[d][e]	Change Instantaneous Outage Program Risk at Year 10[d][e]	Change in Cumulative Outage Program Risk Over 55 Years[d][e]
1	1/1/2028 - 12/31/2028	250	200	250	650	$3.05	$3.05	$21.6	$2,221	$51.3	$6,289
2	1/1/2029 - 12/31/2029	300	240	550	800	$3.10	$3.03	27.6	2,749	16.7	1,796
3	1/1/2030 - 12/31/2030	350	280	900	1,000	$3.14	$3.00	25.2	2,484	37.4	4,106
4	1/1/2031 - 12/31/2031	450	360	1,350	1,150	$3.18	$2.98	28.9	2,816	51.2	5,335
5	1/1/2032 - 12/31/2032	550	440	1,900	1,225	$3.23	$2.96	29.5	2,846	48.4	6,613
6	1/1/2033 - 12/31/2033	600	480	2,500	1,250	$3.30	$2.95	29.9	2,920	54.0	7,274
7	1/1/2034 - 12/31/2034	625	500	3,125	1,250	$3.36	$2.94	27.8	2,759	58.3	7,185
8	1/1/2035 - 12/31/2035	625	500	3,750	1,250	$3.42	$2.92	24.5	2,314	66.9	7,125
9	1/1/2036 - 12/31/2036	625	500	4,375	625	$3.49	$2.91	21.2	2,031	75.3	9,319
10	1/1/2037 - 12/31/2037	625	500	5,000	0	$3.56	$2.90	19.2	1,769	95.1	13,629
End/Total	12/31/2037	5,000	4,000	5,000	0			$255	$24,908	$554	$68,670

(a) Underground mileage is estimated by applying a 1.25 multiplier to the corresponding overhead mileage deenergized. The 2028 undergrounding mileage shown in the EUP Target/Timeline Table (250 miles) differs from the mileage approved in the 2026 WMP (400 miles). The difference is primarily due to the time needed to transition the program and its supporting structure to meet the EUP requirements. Once the EUP is approved, PG&E will update the WMP mileage at the appropriate time.

(b) Pre-construction miles are calculated as the sum of undergrounding miles required to be in the planning process in the next two years that are needed to meet execution targets. These miles reflect the number of miles passing Screen 3 and Screen 4. There is a two year lead time for pre construction miles (e.g., 650 miles in 2028 is the sum of planned miles for 2029 and 2030).

(c) To establish 2028 unit cost values, 2025 actual costs are escalated to 2028 dollars. The "Unit Cost Escalated" column reflects annual unit cost values further escalated from 2028 dollars to the dollar value in the applicable year (2028–2037). The "Unit Cost Unescalated" column reflects annual unit cost values presented in unescalated 2028 dollars and incorporates assumed unit cost reductions over time as program efficiencies are realized. Cost assumptions applied in the current WBCA model for Screen 2 are based on average 2028 unit costs; however, costs for individual projects may vary based on project-specific feasibility multipliers.

(d) Change in Instantaneous Wildfire Risk at Year 10 and Change in Instantaneous Outage Program Risk at Year 10 represents the difference between the circuit segment's projected unmitigated risk and post-mitigation residual risk in 2037. Both values reflect applicable inflation and climate escalation adjustments. Change in Cumulative Wildfire Risk Over 55 Years and Change in Cumulative Outage Program Risk Over 55 Years represent the cumulative difference between the circuit segment's projected unmitigated risk and post-mitigation residual risk over the 55-year evaluation period. Both values reflect applicable inflation and climate escalation adjustments throughout the evaluation period.

(e) Totals may not exactly equal the sum of individual values because figures are rounded independently.

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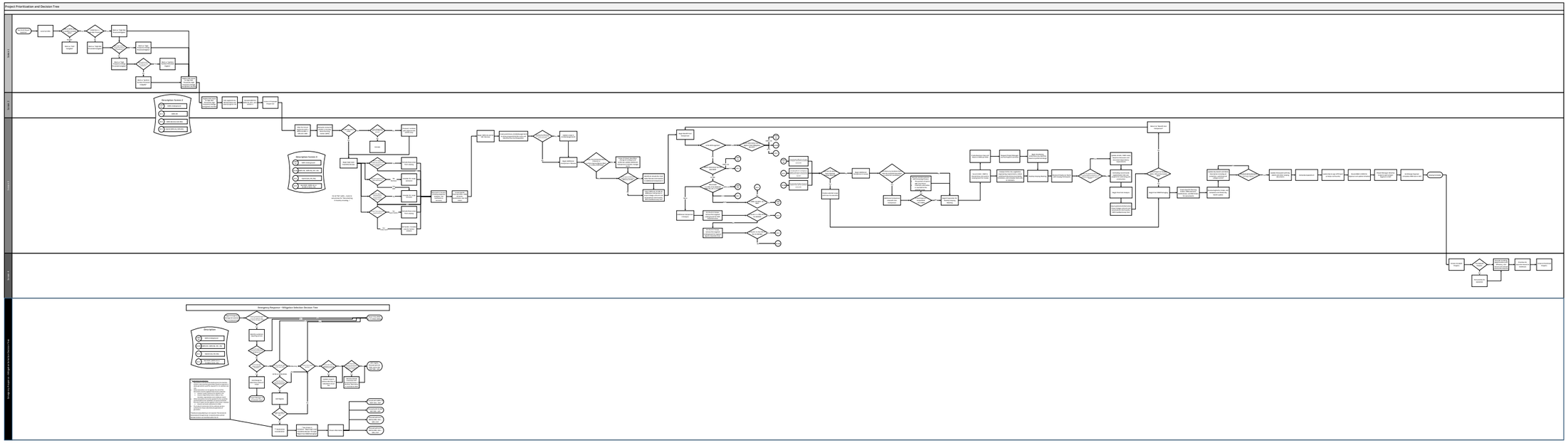
ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP003

PROJECT PRIORITIZATION AND DECISION TREE

Workpaper 003
Pacific Gas and Electric Company
Electrical Undergrounding Program
Project Prioritization and Decision Tree



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ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP004

WILDFIRE BENEFIT COST ANALYSIS (WBCA)

FEEDBACK LOOP

Wildfire Benefit Cost Analysis (WBCA) Feedback Loop

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Feedback Loop White Paper

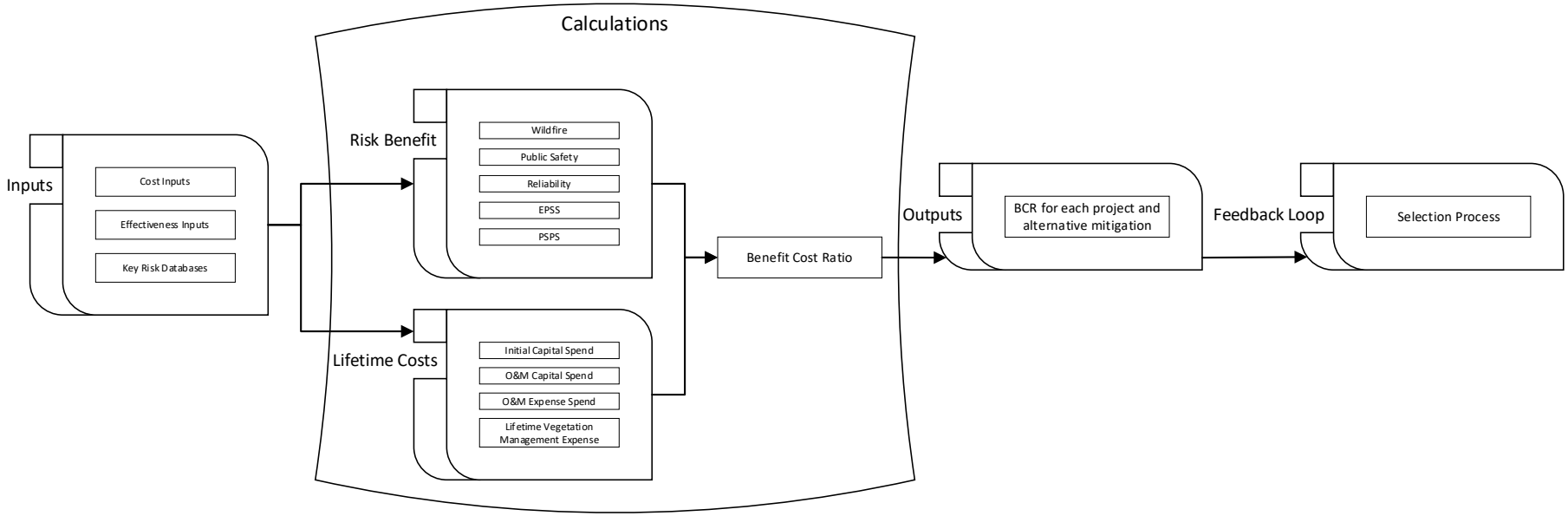
1. Overview of Feedback Loop

The Wildfire Benefit Cost Analysis (WBCA) Feedback Loop system allows PG&E to evaluate alternative system hardening strategies by calculating Benefit Cost Ratios (BCRs) across infrastructure approaches, including combinations of undergrounding, overhead hardening, and remote grid solutions. The feedback loop is designed to iteratively refine project-level WBCA results using updated scoping inputs, with a primary focus on incorporating revised cost assumptions, refining Public Safety Power Shutoff (PSPS) risk reduction estimates, and assessing hybrid mitigation configurations. This enables PG&E to evaluate how these targeted updates influence BCRs, risk reduction, and compliance with Project-Level Standards.

As illustrated in Figure 1 below, the WBCA feedback loop system leverages the calculations and outputs of WBCA to create new records of output metrics based on variable inputs.[1] Inputs are updated as part of the Screen 3 scoping process, and the feedback loop enables recalculation to reflect revised assumptions. For each record, the WBCA feedback loop system calculates various cost-benefit metrics, including BCRs. These output metrics are used to support comparison of alternative configurations and identify infrastructure approaches that maximize cost-effective risk reduction benefits over the asset's life. Additionally, the WBCA feedback loop system determines whether the considered scenario meets applicable Project-Level Standards by comparing calculated risk reduction metrics to the corresponding Project-Level Standard.

[1] See Attach. B, WP006 (WBCA Whitepaper) for additional information on the WBCA.

Figure 1: WBCA Model Diagram



2. Feedback Loop Process

2.1. Project Analysis, and Work Plan Selection

The feedback loop process involves creating feedback loop records, where each record documents the inputs, outputs, and corresponding calculations of a potential project implementing one or more mitigations on a circuit segment. The process begins by selecting the circuit segment to be associated with the project, as well as an analysis representing the current results of Screen 2 assessments used to inform the feedback loop calculations. A project then goes through several phases of analysis, with each phase categorized as a "work plan." During these analyses, the project goes through a feasibility study to determine whether it is feasible and appropriate for scoping. If feasible, the project is scoped and then is either considered scoped or determined to be infeasible. During this process, once a work plan and analysis are selected, the system displays the following circuit segment metrics including:

- Baseline costs and benefits
- Risk metrics
- Mitigation effectiveness factors
- Circuit segment characteristics

2.2. PSPS Risk Mitigation

From a modeling perspective, PSPS risks originate from PSPS event polygons, or extreme weather areas. The potential reduction in PSPS risk (i.e., PSPS Risk Mitigation) for a given project depends on the amount of primary overhead lines within each PSPS event polygon that will be removed. This evaluation is conducted by creating a PSPS mitigation scenario wherein overhead lengths to be removed from PSPS event polygons are specified. The anticipated PSPS Risk Mitigation is then evaluated by aggregating impacts from all PSPS event polygons with which a given circuit segment intersects.

2.3. Mitigation Type Selection

The feedback loop includes three mitigation types as well as an option to consider a combination of mitigations as a hybrid mitigation:

- **UG Primary Distribution Lines:** Primary distribution lines on the circuit segment are undergrounded.
- **Overhead Hardening (OH):** Primary distribution lines on the circuit segment are hardened with covered conductor.
- **Remote Grid:** Distribution lines are removed and replaced with remote grid infrastructure.

- **Hybrid Mitigations:** Distribution lines on the circuit segment are addressed by a combination of the preceding mitigation types – i.e., undergrounding, overhead hardening, and/or remote grid solutions.

When creating a feedback loop record, users specify the Mitigation Type for the record and enter refined inputs into the system, as described in section "3. Feedback Loop Mitigation Type Inputs."

2.4. Feedback Loop Record Submission

Once the feedback loop inputs described in Section 3 are submitted, the WBCA feedback loop record is created and the system produces the estimated cost and benefit metrics and identifies whether the project level standards are met.

See Section 4 and Attach. B, WP006 (WBCA Whitepaper) for the formulas for the cost and benefit metrics applied within the WBCA Feedback Loop.

2.5. WBCA Feedback History

The WBCA Feedback history allows PG&E to view details of the WBCA feedback loop records. Each WBCA record is assigned a status: Draft, Pre-DSM (Desktop Scoping Meeting), or Final. Final represents the actual plan to be executed, and only one record per circuit segment can be marked as final.

Additionally, PG&E can duplicate an existing WBCA feedback loop record for modification to incorporate new or updated information. For example, a record may be duplicated for modification when updated cost information becomes available or when risk model results informing the WBCA feedback loop evaluations need to be updated. When duplicating and modifying a record, a new record is generated to preserve the historical record.

3. Feedback Loop Mitigation Type Inputs

Once a mitigation is selected, the following inputs are entered into the system by PG&E. The required fields vary depending on the mitigation type:

- The UG Primary mitigation type allows users to enter undergrounding miles, undergrounding unit cost, miles removed for undergrounding, idle miles removed, cost of removing idle miles, excluded miles, privately owned miles, and refined PSPS risk reduction estimates.
- The OH mitigation type allows users to enter OH system hardening miles, OH system hardening unit cost, idle miles removed, cost of removing idle miles, excluded miles, and privately owned miles.

- The Hybrid mitigation type allows users to enter undergrounding miles, undergrounding unit cost, miles removed for undergrounding, overhead hardening miles, overhead hardening unit cost, idle miles removed, cost of removing idle miles, excluded miles, privately owned miles, remote grid cost, remote grid miles, and refined PSPS risk reduction estimates.

See Table 1 below for feedback loop mitigation type inputs.

TABLE 1
FEEDBACK LOOP MITIGATION TYPE INPUTS AND DESCRIPTIONS

Input	Description
Undergrounding Miles	Miles of lines to be undergrounded upon scope completion.
Undergrounding Unit Cost ($M)	Initial capital cost of installing underground per mile. Includes the primary unit cost ("UG primary").
Overhead Hardening (OH) System Hardening Miles	Miles of lines to be hardened upon scope completion.
Overhead Hardening (OH) System Hardening Unit Cost ($M)	Cost of implementing system hardening per mile on OH conductor.
Removal Idle Miles	Miles of idle overhead lines removed upon scope completion.
Removal Idle Mile Cost ($M)	Cost of removing idle lines per mile.
Remote Grid Miles	Miles of overhead lines that will be removed and replaced by Remote Grid.
Remote Grid Installation Cost ($M)	Lump sum cost of installing Remote Grid.
Remote Grid O&M Cost ($M)	Lump sum O&M costs for Remote Grid.
Excluded Miles	Miles of overhead lines already hardened, planned for hardening, or ineligible for scoping. These miles will be excluded from the BCR calculation.
Privately Owned Miles	Miles of privately owned primary overhead lines. These miles will be excluded from the BCR calculation.
Miles Removed for Undergrounding	Miles of overhead that will be replaced by underground lines. These miles are used to calculate residual conductor miles for risk mitigation.
PSPS Mitigated Benefit ($M)	Estimated reduction in PSPS risk due to removal of overhead lines within event polygons

4. Calculations

The calculation of cost and benefit metrics applied within the WBCA Feedback Loop is consistent with the methodology described in Attach. B, WP006 (WBCA Whitepaper). These calculations are operationalized and iteratively updated within the Feedback Loop to reflect revised project inputs and mitigation configurations.

5. Conclusion

PG&E's WBCA feedback loop system is designed to support consistent, repeatable, and transparent decision-making for circuit segment-level mitigation selection. It produces cost and benefit metrics for a variety of mitigation scenarios and can be updated as inputs, scope, and assumptions evolve, enabling iterative re-evaluation as project information matures. In this way, the system serves as a decision-support framework that allows PG&E to compare alternative mitigation configurations, assess their relative cost-effectiveness and risk reduction, and inform selection of the mitigation approach that best advances program objectives.

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP005

THIRD PARTY IMPACT ANALYSIS OF PG&E'S 10-YEAR ELECTRICAL UNDERGROUNDING PLAN

Marsh

Impacts of PG&E's 10-Year Electrical Undergrounding Plan

Emerging Risks Group
Marsh Global Risk Management

October 2026

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Section 1

Project Overview and Defining Key Terms

Purpose

The engagement between Marsh and PG&E consists of **two primary wildfire models** that are assessed for both pre-EUP (2026-2027) and post-EUP (2028-2037), based on 5,000 miles of undergrounding as part of PG&E's work plans that were received by Marsh in **August 2026 for this analysis.**

Marsh evaluated the pre- and post- EUP impact on PG&E's distribution poles and how undergrounding impacts modeled PG&E attributable wildfire losses to residential properties, businesses, and the surrounding community. The analysis for the surrounding community includes a climate change impact model and the effect on homeowner's insurance.

Defining Key Terms

Loss	The outputs of Marsh's modeling are based on simulated years of possible financial losses to PG&E. "Loss" refers to the amount of financial liability resulting from wildfire events payable by PG&E.
Average Annual Loss (AAL)	With all simulated financial losses, the average amount of loss across all the years is referred to as the "AAL."
1-in-100 Year VaR	This is the 99th percentile worst year (largest financial loss) PG&E can experience. This is also interpreted as the worst year out of 100 simulated years. This is also referred to as "extreme loss."
1-in-100 Year TVaR	The average of all years where losses are worse than the 1-in-100 Year VaR. This is interpreted as the volatility in the tail-end beyond the 99th percentile. This is also referred to as "most extreme loss."
Catastrophic Loss	The worst-case catastrophic years that PG&E could experience is characterized by the range of losses from the 1-in-100 Year VaR (extreme loss) to the 1-in-100 Year TVaR (most extreme loss).

PG&E Territory	Marsh's modeling starts by simulating wildfires across the state of California. Any simulated wildfire that is located within PG&E's service area is considered a part of the PG&E Territory losses.
Modeled PG&E Reportable Ignitions (Attributable)	Within Marsh's wildfire model simulations, any modeled wildfire that Marsh statistically determines is attributable to an ignition by a PG&E asset is a part of the PG&E modeled Attributable losses.

Loss Modeling Results and Metrics in Context For all Segments of Analysis

In order to best synthesize these wildfire loss results, Marsh focused on two key metrics:

- Catastrophic loss, measured as Annual Probable Maximum Loss (APML) which Marsh anchored on a 1-in-100 years point, or 1%.
- Average loss, measured as Annual Average Loss (AAL).

Together, these metrics help describe the statistical range of possible losses associated with wildfires. Catastrophic losses can be understood as very low frequency (1%) but high severity events. These events are statistically probable in any given year, or in particularly extreme years, more than once. Because of the nature of stochastic modeling, this metric reflects a possible but technically still hypothetical loss. In other words, a reduction in APML does not necessarily mean guaranteed savings in a given year. However, because investments in risk mitigation or risk reduction are by definition investments in reducing both real and potential impacts from loss events, APML reduction is still one of two primary goals when considering risk expenditures.[1]

Average annual loss is the average of all modeled losses, including years with no losses, and reflects the statistically most probable outcome in any given year. While still a modeled loss, this metric represents most likely losses in any given year. As such, AAL reduction can be understood as expected "real" annual savings.

[1] Risk transfer (insurance) return on investment (ROI) analysis typically contemplates real savings (average loss reduction) and some form of catastrophic loss reduction, with transfer efficiency often primarily based on catastrophic loss reduction.

Section 2

Community Risks

Key Takeaways

- Based on Cal-Fire historical data, approximately 9 percent of wildfires in PG&E's service area from 2014 to 2024 were caused by "Electrical Power" infrastructure. The same infrastructure is also responsible for 81 percent of the $41.1B in wildfire losses over the same time horizon.
- PG&E's EUP will help mitigate significant residential and commercial losses due to wildfire risk associated with modeled PG&E reportable ignitions by a modeled average annual loss of approximately $24M, or a 21 percent reduction.
- Extreme losses for residential and commercial properties associated with modeled PG&E reportable ignitions, representing the 99th percentile or 1-in-100 year worst loss, are expected to decrease by approximately $533M or 20 percent due to PG&E's EUP.
- Looking further into the tail-end scenarios, the most extreme losses associated with modeled PG&E reportable ignitions for residential and commercial properties are expected to decrease by approximately $699M or 12 percent.
- Modeled results estimate that PG&E's EUP reduces the economic impacts of wildfire for residential properties by reducing:
  - Average annual losses by approximately $21M or 21 percent;
  - Extreme losses (99th percentile or 1-in-100 year worst loss) by approximately $465M or 19 percent; and
  - Most extreme losses by approximately $627M or 12 percent.
- Modeled results estimate that PG&E's EUP reduces the economic impacts of wildfire for commercial properties by reducing:
  - Average annual losses by approximately $3M or 20 percent;
  - Extreme losses (99th percentile or 1-in-100 year worst loss) by approximately $67M or 21 percent; and

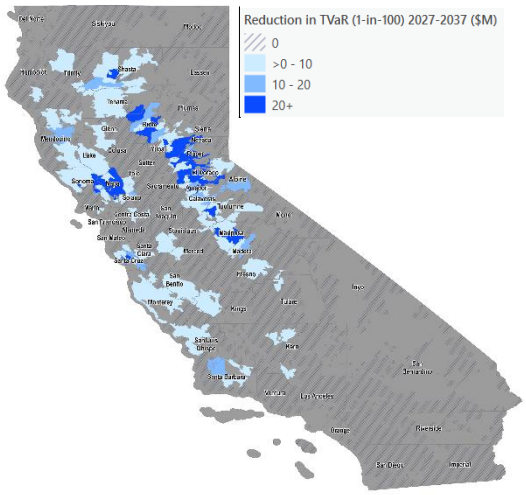


Figure 2-1: Catastrophic Residential Loss Change by Zip Code (Most Extreme Loss)

- Most extreme losses by approximately $77M or 11 percent.

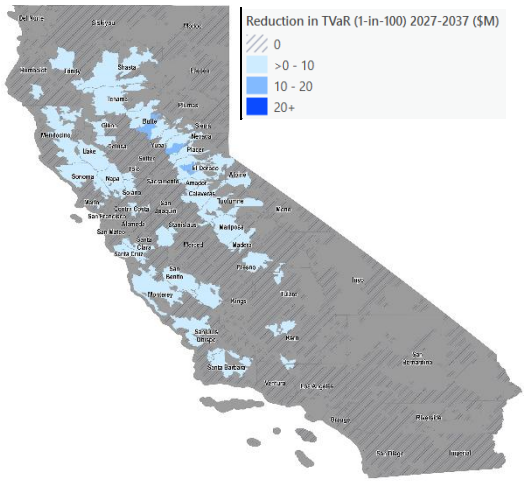


Figure 2-2: Catastrophic Commercial Loss Change by Zip Code (Most Extreme Loss)

Methodology Overview

The Marsh approach used simulation techniques to model PG&E's estimated wildfire liability attributable to PG&E distribution assets. Low frequency catastrophe events such as wildfire and especially for utility-associated wildfire require some deviation from actuarial approaches that rely primarily on historical losses. Marsh's approach accounts for the infrequency of historical events and is in line with catastrophe modeling techniques often used by the insurance and reinsurance industries for these types of losses.

The Marsh analysis used AIR Worldwide Corporation's ("AIR") wildfire event catalogue ("catalogue") and its industry exposure database (IED) as available through AIR's Wildfire Model V12 as implemented in its Touchstone platform. Marsh is not using Touchstone's native probabilistic modeling capabilities. Instead, the Marsh approach used the full event catalogue and the IED as the basis for a Marsh-developed probabilistic Monte Carlo simulation.

Using the AIR event catalogue from the V12 Wildfire Model, Marsh implemented a Monte Carlo simulation that sampled against the AIR wildfire events within the catalogue. As AIR notes in its 2018 documentation, such a simulation would "give mathematical representation to the physical phenomena of catastrophe events in order to evaluate the potential damage and insured losses that can occur." Furthermore, the Marsh approach, like the AIR approach in 2018, is probabilistic, meaning that "the results of the modeling are expressed in terms of probabilities" with results "expressed in terms of a probability distribution, also known as a loss distribution."[2]

The Marsh Monte Carlo simulation sampled against the AIR event catalogue, which provided wildfire location and severity data but lacked ignition cause. To build in the ignition cause, Marsh applied geofencing and probabilistic filters to determine which modeled events could stochastically by attributable to PG&E's distribution assets (utility-caused).

[2] AIR, "Cal Phoenix Re 2018-1 – Offering Circular Supplement No.1", A-1.

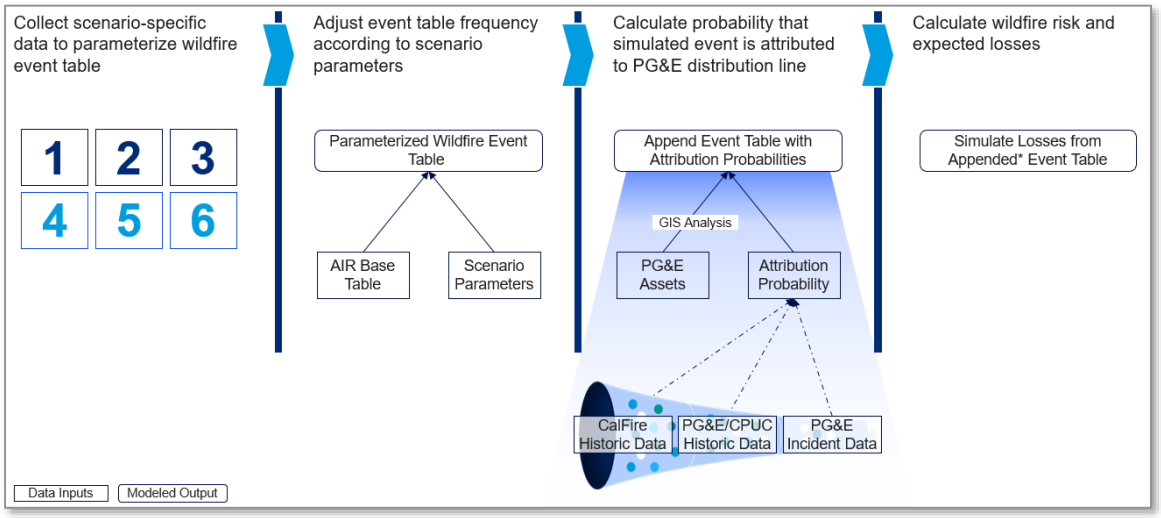


Figure 2-3: Community Risks Base Model Methodology

Probabilistic Attribution

Using historical analysis of California wildfires, their losses, and determined ignition causes, Marsh developed a probability of attribution that assessed the likelihood of attribution back to a PG&E distribution asset based on final simulated fire loss.

Marsh developed a composite historical data set from Cal-Fire, the California Public Utility Commission's (CPUC) PG&E reported ignitions, PG&E internal ignition data, PG&E internal loss data, publicly available reported losses from wildfire, Marsh and Guy Carpenter subject matter expert interviews, and PG&E subject matter expert interviews. This data set encompassed ignitions and wildfires from 2014-2023. Marsh analyzed this data set to determine what fire characteristics (acres burned, estimated financial losses, reported fatalities, seasonality, weather conditions) were most predictive of a given ignition type. This analysis concluded that estimated losses were by far the strongest predictor of ignition source, including utility-asset related causes.

Based on this conclusion, Marsh, in partnership with subject matter experts from Guy Carpenter, determined attribution likelihood of a simulated wildfire event against that fire's cumulative losses as available in the event catalogue data.

In order to develop the probability of attribution formula, Marsh computed a maximum bound for the probability of attribution based on historical PG&E attribution rates of reported wildfires.

Between 2014 and 2023, PG&E yearly attribution rates associated with a distribution asset for reported wildfires in the data set ranged from 0.13% to 47.41%. However, when compared to PG&E's Wildfire Safety Division (WSD) internal data on specific causes of ignition, these historical attribution rates can be further broken down by individual WSD driver cause. Within that more refined view, PG&E's historical distribution asset attribution drops to 0.00% - 47.07%. Because this is a known historical range of attribution rates and considering that PG&E's wildfire risk has likely reduced further given its continued mitigation activities,

Marsh computed a weighted average of the historical outcomes (42.3%) as its “maximum” bound for probabilistic attribution given a simulated wildfire event loss.

Not surprisingly, there were years in the composite data set where no PG&E assets were associated with a reported wildfire against a specific WSD driver. Following discussion with wildfire modeling experts from Guy Carpenter, Marsh selected a non-zero minimum (0.05%) floor instead of the historical zero to err on the conservative side. The selected floor avoided a “zero risk” possibility but was still small enough so not to unnecessarily skew potential losses higher.

Each simulated loss event, after it had been determined to be within the PG&E service area and distribution asset geo fence, was then probabilistically determined to be “attributed” to PG&E based on the cumulative losses as reported in the AIR event catalogue for that event.

AIR Catalogue and IED

The Marsh analysis uses the 10,000-year AIR Worldwide Corporation’s (“AIR”) wildfire event catalogue (“catalogue”) and its industry exposure database (IED) as available through AIR’s Wildfire Model V12 as implemented in its Touchstone platform. Marsh is not using Touchstone’s native probabilistic modeling capabilities. Instead, the Marsh approach uses the full event catalogue and the IED as the basis for a Marsh-developed probabilistic Monte Carlo simulation.

The AIR wildfire model is an event-based model that stochastically captures wildfire risk to property within the 13 westernmost US states, including California. Marsh only used the California catalogue for its analysis. The catalogue is a collection of simulated events that capture the frequency, severity, location and other characteristics of the entire spectrum of plausible wildfire ignitions and associated loss outcomes.

Events in the catalogue include ignition points, total area burned, spatial distribution of each simulated wildfire, and associated losses. Though the catalogue itself is 10,000 years, years may have more than one wildfire, resulting in hundreds of thousands of wildfire events in the catalogue 100 acres or greater.

Fire size, frequency, and seasonality of simulated fires are based on several factors but primarily reflect simulated weather and fuel conditions within an ecoprovince. Ecoprovinces are regions with similar ecosystems, climate, and vegetation and these physical elements are key drivers of fire behavior. Frequency of events is also driven by historical total area burned per year and per month in each ecoprovince. Historical fire data is drawn from the USDA Forest Service’s Fire Occurrence Database (FOD).

Wildfire event damage reflects a combination of fire intensity data and property exposure characteristics. AIR models wildfire intensity within its proprietary spread model, and includes fire characteristics such as flame length, rate of spread, and fuels reaction intensity. Building exposure characteristics include construction type, occupancy, roofing and siding material, and defensible spaces.

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Section 3
Climate Change

Key Takeaways

- Expected average annual losses and extreme losses from wildfires across PG&E's service territory in 2037 are expected to increase substantially, by almost 11 percent, due to climate change. Specifically, average annual losses are expected to increase by $250M and extreme losses are expected to increase by $2.0B.



Figure 3-1: Change in Extreme Loss due to Climate Change only across PG&E Service Territory (2028 – 2037)

- The modeled reduction in risk from PG&E's EUP is outpaced by the expected increase in risk due to climate change, resulting in an increased average annual loss of approximately $15M or 1 percent, as well as an increase in the most extreme losses of approximately $1.7B or 5 percent to residential and commercial properties across PG&E's service territory. It is important to note that without the impact of the EUP, these increases would be far more significant, with annual losses expected to increase by $179M or 7 percent and most extreme losses increasing by $2.5B or 7 percent. Regardless, 30 counties are expected to experience a decrease in extreme losses over the next decade.

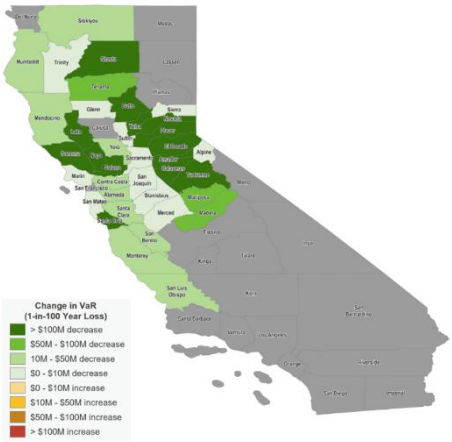


Figure 3-2: Reduction in Extreme Loss across PG&E Service Territory due to Undergrounding (2037)

	Increase in Risk Attributable to Climate Change (excl. EUP)	Increase in Risk Attributable to Climate Change (incl. EUP)	Difference
Average Annual Loss	$179M (7.0%)	$15M (0.6%)	$164M (91.8%)
Extreme Loss	$1.4B (6.9%)	$177M (0.9%)	$1.2B (87.5%)
Most Extreme Loss	$2.5B (7.4%)	$1.7B (4.8%)	$869M (34.3%)

Figure 3-3: Reduction in Losses Across PG&E Service Territory including and excluding EUP Impact (2028 – 2037)

Methodology Overview

The climate change analysis models PG&E's wildfire risk and the effect of PG&E's EUP undergrounding plans over the period of 2028-2037 under a "worst case" scenario as defined by the Cal-Adapt RCP 8.5 pathway.

Climate Change Public Models

There are 2 major climate change public models that most regulators currently rely on:

- RCP (Representative Concentration Pathways)
  - RCPs are a set of scenarios that describe the potential future radiative forcing resulting from different levels of greenhouse gas concentrations.
  - As the previous CMIP5 (2013) scenarios, RCPs range from RCP 2.6 (best case) to RCP 8.5 (worst case).
  - RCP 8.5 represents the climate change scenario in which the concentration of emissions results in radiative forcing greater than 8.5 watts per square meter, resulting in a total warming of approximately 4.0 degrees Celsius by 2100. This pathway is commonly referred to as the "worst case" climate scenario and provides an extreme set of conditions against which to run our wildfire model.
- SSP (Shared Socioeconomic Pathways)
  - SSPs are a set of scenarios that describe different possible paths of development in terms of demographic, economic, technological, and social factors.
  - As the most recent CMIP6 (2021) scenarios, SSP-RCP Scenarios range from SSP1-1.9 to best case to SSP3-7.0 and SSP5-8.5 worst case.

Despite regulator movement towards SSP3-7.0, public models largely still rely on RCP 8.5. Given the historic preference for RCP 8.5 scenarios, existing publicly available models are more fine-tuned for Marsh's wildfire modeling. Cal-Adapt and other key sources have not yet released broadly applicable SSP3-7.0 models.

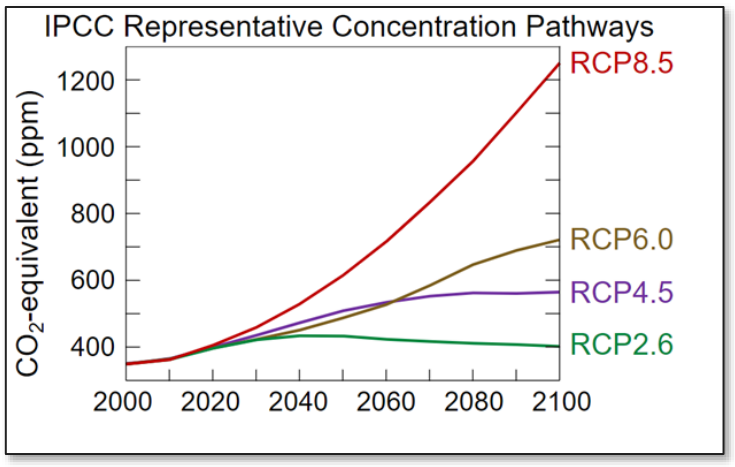


Figure 3-4: RCP (Representative Concentration Pathways)

Approach

To assess the impact of climate change, Marsh employed the RCP 8.5 carbon emissions scenario. Marsh chose those conditions to test extreme conditions and how undergrounding might change wildfire risk. Marsh did not assess the likelihood of those condition sets occurring.

The Cal-Adapt RCP 8.5 datasets provide acres burned from wildfires for every year until 2099. Marsh leveraged all 4 RCP 8.5 models available (CanESM2, CNRM-CM5, HadGEM2-ES, MIROC5) to compile a dataset of acres burned for all California counties within PG&E's service territory over the 100-year period of 2000-2099.

For each county, the 100 years of data were fitted to 5 different distributions (linear, exponential, binomial, trinomial, logarithmic) and the distribution with the best fit was chosen.

For each fitted distribution, a multiplier 'ClimateMultiplier' was calculated for the increase in wildfire risk from 2028-2037 to match the period of PG&E's EUP undergrounding plans.

Using the fitted distributions, Marsh applied each county's calculated 2028-2037 climate change multipliers onto the previously completed community risk results.

These final results show PG&E's wildfire risk in the case that climate change follows the RCP 8.5 pathway.

Section 4

PG&E Assets and Direct Losses

Key Takeaways

- PG&E currently faces an estimated average annual loss of $512M due to damage to distribution infrastructure caused by wildfires. By 2037, this average annual loss is expected to increase to approximately $584M or an increase of 14 percent due to climate change.
- Factoring in PG&E's EUP, despite the expected increase in risk due to climate change, average annual losses to distribution infrastructure from wildfire damage are expected to decrease by approximately $83M, a decrease of nearly 17 percent for the remaining lifetime of distribution assets in the HFTD.

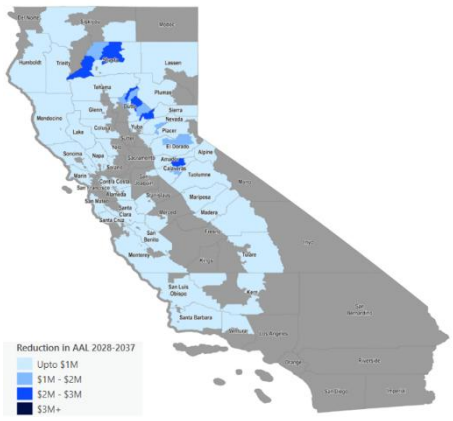


Figure 4-1: First-Average Annual Loss Reduction (First-Party Risk)

Methodology Overview

The analysis of PG&E Assets models PG&E's direct costs of replacing distribution assets due to damage caused by any wildfire events. This analysis utilizes the community risks model detailed above, specifically the result of the Marsh Monte Carlo simulation with geofencing applied. Probabilistic attribution filters are not applied to this model since the cost of PG&E asset damage does not depend on whether the simulated wildfire could be attributable to PG&E.

Approach

The approach to modeling PG&E's Assets follows these steps:

1. **Map PG&E Footprint:** Map PG&E distribution assets across its service area using data provided by PG&E.
2. **Identify AIR Fires:** Utilize Marsh CAT (natural catastrophe) modeling to identify fires within the AIR model which impact PG&E infrastructure. AIR simulation identified about 199k ignition points which impacted PG&E assets over the 10,000-year analysis period.
3. **Analyze Fire/Asset Intersections:** Marsh drew buffer zones around each ignition point, directly proportional to the "burned area" denoted by the AIR output. Marsh approximated burn scars of simulated fires, creating circular buffers around ignition points, due to a lack of burn shape information. Marsh identified all PG&E assets within each analyzed fire, assuming any asset within the fire perimeter would require 100% replacement. Per discussions with PG&E, any simulated fire impacting a pole will result in the total loss of that pole and cost PG&E $49,048 per pole to replace.

4. **Model for Other Years:** Marsh repeated this process for each year from 2028-2037 using the respective Marsh Monte Carlo simulation for each year as well as the list of PG&E Assets for each year. Marsh assumed that in PG&E's EUP undergrounding plans, any location where PG&E indicated undergrounding results in PG&E Assets being fully replaced by underground assets that have no risk of being damaged by wildfires.

5. **Applying Climate Change:** Each simulated burn area was multiplied by its respective county's calculated 'ClimateMultiplier', representing the climate multiplier identified through Cal-Adapt (more detail on the 'ClimateMultiplier' calculation and methodology can be found in the Climate Change Methodology section).

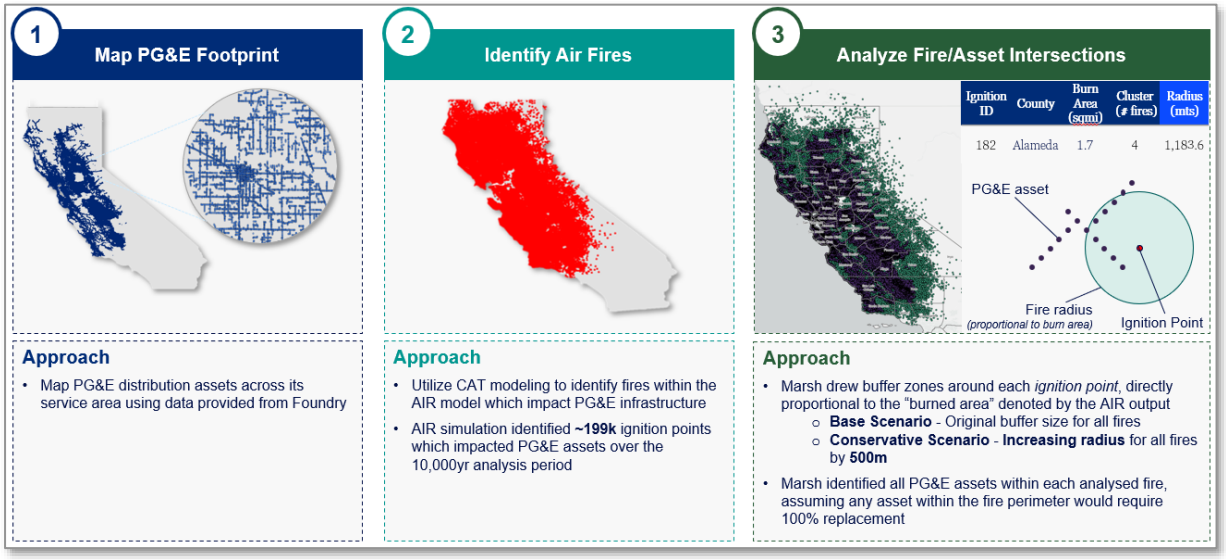


Figure 4-2: PG&E Asset Risk Analysis Methodology

Limitations

Out of ~199K AIR simulated fires, 46% of fires impacting PG&E assets form clusters, where a single "Primary" fire leads to the ignition of multiple "Associated" fires (2-10 fires per cluster).

Ignition point coordinates are provided only for the "Primary" fire in the cluster, limiting geospatial analysis as the exact ignition points for "Associated" fires are unknown.

The area burned in square miles by the largest fire in the cluster (which could be either the "Primary" or one of the "Associated" fires) is provided, but the sum of the area burnt by all fires in the cluster is unknown, further limiting geospatial analysis.

Section 5

Homeowners Insurance Impact

Key Takeaways

- All else being equal, it is estimated that during the 10-year EUP period, the wildfire risk reduction achieved from undergrounding could facilitate a reduction in commercially available homeowners insurance premiums in PG&E's service territory of over 18 percent.

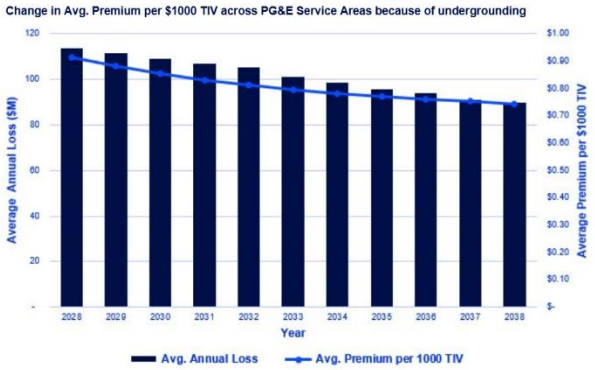


Figure 5-1: Premium Savings for Homeowners in PG&E Service Areas

Methodology Overview

The purpose of the analysis is to estimate how reductions in wildfire risk associated with PG&E's planned undergrounding program may affect homeowners insurance costs across its service territory over the 2026–2037 planning period. The analysis focuses on broad directional impacts on insurance pricing rather than predicting the premium charged to any individual homeowner or property.

At a high level, the work combines historical insurance information, property value information, and projected changes in wildfire-related loss expectations. These inputs are then used to develop an area-level view of how insurance costs may evolve if wildfire risk from utility assets declines over time.

Marsh's analysis of potential insurance premium impacts uses publicly reported historical homeowners insurance data, property value information, and projected changes in expected wildfire-related loss associated with planned undergrounding activity in its service territory. The analysis develops area-level forecasts of insurance cost measures and evaluates how reductions in wildfire risk may influence homeowners insurance premiums over time. The results are intended to provide directional insight at an aggregate level and should not be interpreted as a prediction or guarantee of premium outcomes for any individual insurer, property, or policyholder.

Approach

The analysis was completed in a series of linked steps. First, historical homeowners insurance information was assembled for ZIP codes within and around PG&E's service territory using publicly available California Department of Insurance data. This historical information included premium levels, policy exposure, and insured property value measures for recent years.

Second, the historical ZIP code data was standardized and organized so that it could be compared consistently across years. The ZIP code information was then aligned to counties within PG&E's service territory in order to create a stable geographic view of insurance conditions over time.

Third, historical patterns in key insurance measures were used to project forward the main building blocks of future insurance cost: the number of insured risks, the insured value of property, and premium levels. These projections were prepared over the forward-looking period covered by PG&E's undergrounding plan.

Fourth, the analysis incorporated estimates of expected annual third-party wildfire loss in PG&E's service area. These loss estimates reflect the anticipated change in wildfire-related risk over time as undergrounding initiatives are implemented. In general terms, the analysis assumes that lower expected wildfire loss should support lower insurance cost pressure, all else equal.

Fifth, the analysis compared area-level insurance cost levels with area-level wildfire loss measures to evaluate how changes in expected wildfire risk may be associated with changes in insurance pricing. This step was performed at an aggregated geographic level and was intended to capture broad market relationships rather than property-specific outcomes.

Finally, the projected change in wildfire-related loss was translated into an estimated change in future homeowners insurance cost levels across PG&E service counties. The final results were summarized as changes in average premium levels and related insurance affordability indicators over the study period.

Key data inputs

The analysis relied on several categories of information:

- Historical homeowners insurance premium and exposure / policy count data from California Department of Insurance (CDI) reporting.[3]
- Historical and projected measures of residential property value used to place insurance costs in context relative to insured value.
- County and ZIP code geographic mappings used to align insurance activity to PG&E's service territory.

[3] The CDI dataset Marsh used includes commercial insurance plans, specifically DO (Dwelling Owner-Occupied), DT (Dwelling Tenant-Occupied), and HO (Homeowners') type policies, and does not include state-funded insurance plans such as the FAIR Plan. Full documentation of the historical dataset from CDI: https://www.insurance.ca.gov/01-consumers/200-wrr/WildfireRiskInfoRpt.cfm

- Projected expected annual third-party wildfire loss reductions associated with PG&E's planned undergrounding activities during the 2026–2037 period.

How the results should be interpreted

The resulting estimates are intended to show how insurance conditions may change at a portfolio or territory level if wildfire risk from PG&E assets declines over time. The results are therefore best understood as directional and area-based estimates. They are not a quote, rate filing, underwriting view, or guarantee of future premium outcomes for any insurer, policyholder, ZIP code, or county.

Insurance premiums are influenced by many factors beyond wildfire risk, including inflation, reinsurance costs, claims experience from non-wildfire perils, regulatory developments, insurer appetite, property characteristics, and broader market conditions. For that reason, the analysis isolates the effect of changing wildfire-related loss expectations within a broader and more complex insurance marketplace.

Limitations

As with any forward-looking analysis, the results are subject to uncertainty. Future insurance outcomes may differ from these estimates because of changes in market conditions, consumer behavior, insurer participation, catastrophe experience, legal and regulatory developments, macroeconomic trends, or differences between projected and actual wildfire risk reduction. The analysis should therefore be considered one decision-support input rather than a precise forecast of future market behavior.

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PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP006

WILDFIRE BENEFIT COST ANALYSIS (WBCA) WHITEPAPER

Wildfire Benefit Cost Analysis (WBCA) Whitepaper

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Wildfire Benefit Cost Analysis Model White Paper

1. Overview of WBCA Model

1.1. Overview

Pacific Gas and Electric Company (PG&E) developed the Wildfire Benefit Cost Analysis (WBCA) model in accordance with SB 884 to compare the long-term costs and quantifiable benefits of Undergrounding against other mitigation alternatives including Overhead Hardening. The WBCA model provides a point-in-time comparison of mitigation alternatives at the circuit segment level and considers the lifetime costs and benefits of each mitigation.

The WBCA model quantifies the risk reduction for ignition risk, reliability risk (including Baseline Outage Risk and Outage Program Risk), and public safety risk, and calculates the lifetime costs of each mitigation, including the mitigation installation costs and lifetime operations and maintenance (O&M) costs. The primary outputs of the WBCA model are the Benefit Cost Ratios (BCR) for each mitigation, by circuit segment, compared to a baseline scenario of PG&E's system prior to the implementation of any mitigation alternatives.

The outputs of the WBCA model are intended to support mitigation selection in PG&E's General Rate Case (GRC), PG&E's Wildfire Mitigation Plan (WMP), and PG&E's Electric Undergrounding Plan (EUP).

1.2. Mitigation Alternatives and Additional Comparisons

The following mitigations are scenarios that are considered in the WBCA model calculations for each circuit segment.

- **Baseline (existing infrastructure including operational mitigations):** Represents the "as is" system state before application of any EUP mitigation alternatives.[1] This scenario incorporates EPSS and PSPS as operational mitigations for wildfire risk on the existing overhead system.
- **Undergrounding (UG) Primary Distribution Lines:** Represents the portion of line miles addressed by undergrounding within HFTD[2] areas on the circuit segment.

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1 The WBCA evaluates risk and cost assumptions using a point-in-time representation of PG&E's distribution system that is aligned with the system configuration snapshot used in Wildfire Distribution Risk Model (WDRM) Version 4 (V4) from January 1, 2023.

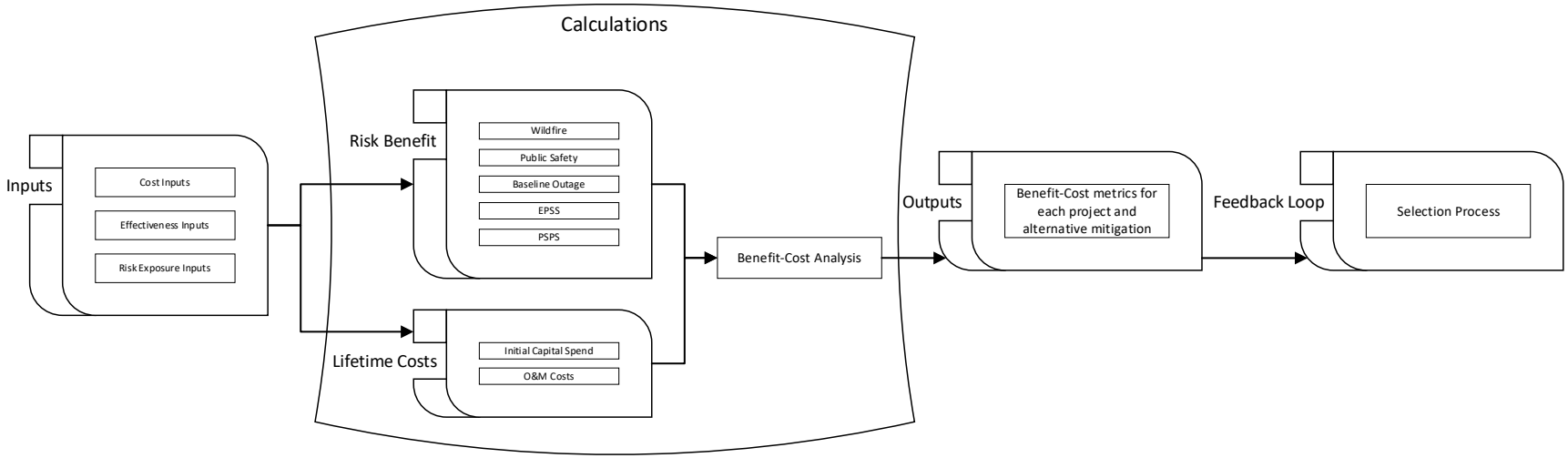
2 PG&E will scope the full extent of the HFTD *and* HFRA overhead miles within a circuit segment; however, EUP undergrounding work will be limited to HFTD areas. PG&E may file a Petition for Modification (PFM) of the CPUC's HFTD and, if that is approved, additional miles may be eligible for undergrounding.

- **Overhead Hardening (OH):** Reflects the line miles addressed by Overhead Hardening within HFTD areas on the circuit segment.
- **Remote Grid (RG) with Line Removal:** Represents the line miles addressed by Remote Grid within HFTD areas on the circuit segment, along with removal of the associated primary distribution line.
- **Hybrid Mitigations:** Assumes a percentage of the primary distribution overhead line mileage within HFTD areas on the circuit segment will be undergrounded, and remaining mileage will be addressed by either Overhead Hardening or Remote Grid with Line Removal.

1.3. WBCA Model Summary Diagram

Figure 1 provides a high-level diagram of the WBCA Model and shows how model inputs flow through the calculation process to produce outputs, including BCR results by mitigation alternative. The diagram also illustrates how the Feedback Loop informs future updates to the model by incorporating new data, assumptions, and lessons learned from implementation.

Figure 1: WBCA Model Diagram

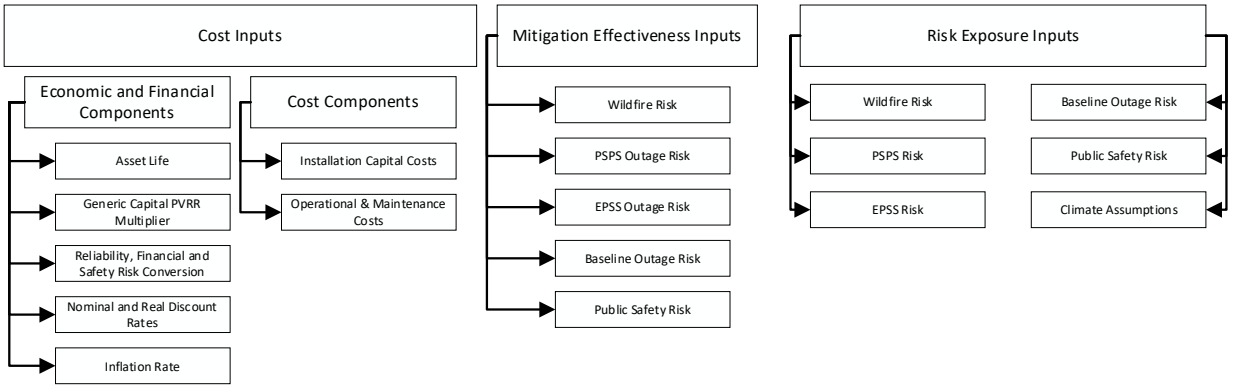


2. WBCA Model Inputs

The WBCA model was developed using three key input categories to quantify the risk reduction for ignition risk, reliability risk (including Baseline Outage Risk, EPSS and PSPS) and public safety risk, and calculate the lifetime costs of each mitigation, including the mitigation installation costs and lifetime O&M costs:

- **Cost Inputs:** Data sources that capture capital and O&M cost information used to quantify the financial components of WBCA model. These inputs include values from previously approved regulatory filings, internal analyses, and static data sources.
- **Effectiveness Inputs:** Datasets that quantify the risk reduction associated with a given mitigation alternative.
- **Risk Exposure Inputs:** Risk-modeling data and supporting datasets used to quantify pre-mitigation risk exposure, including customer interruption impacts. These inputs establish the baseline risk conditions evaluated by the WBCA and support calculation of wildfire, outage, and public safety risk-reduction benefits.

Figure 2: WBCA Model Inputs



2.1. Cost Inputs

2.1.1. Economic and Financial Components

- **Overhead, Underground, and Remote Grid Asset Life:** Asset life affects the BCR calculation by determining the duration over which both O&M costs and expected benefits are evaluated. The WBCA model uses the Overhead and Underground Asset Life adopted in CPUC Decision (D.) 23-11-069 with an adopted benefit life of 55 years for

underground assets, and 48 years for overhead assets.[3] Remote Grid asset life assumptions are calibrated to 48 years, consistent with overhead asset life assumptions.

- **Generic Capital PVRR Multiplier**: A Present Value of Revenue Requirement (PVRR) multiplier is applied to the Installation Capital Cost for each project to account for authorized returns on capital investments and discounted using After-Tax Weighted Average Cost of Capital (ATWACC). This is a financial measure, traditionally used by public utilities subject to cost-of-service regulation.

- **Cost-Benefit Approach (CBA)[4] Reliability Risk Conversion:** The CBA Reliability Risk Conversion is a Cost per Customer Minutes Interrupted (CMI) output from the Lawrence Berkeley National Laboratory Interruption Cost Estimate (ICE) Calculator to determine a standard dollar valuation of electric reliability risk for the Reliability Attribute with the main output section producing discrete results for residential and non-residential customer classes.[5] This is otherwise referred to as "value of service."

- **CBA Financial Conversion:** The CBA Financial Conversion is a Cost per Financial Impact that is a value of 1 such that the cost of a $1 financial impact is equivalent to $1.

- **CBA Safety Risk Conversion:** Calculated using Department of Transportation (DOT) guidance for the Value of a Statistical Life (VSL), adjusted for the base year considered, and California price and real wage data.[6]

- **Nominal Discount Rate:** Also referred to as the After-Tax Weighted Average Cost of Capital (ATWACC), [7] the Nominal Discount Rate is used to calculate the present value of all future costs and attributes. This rate is 7.0%

- **Inflation Rate:** Risk mitigation programs provide risk reduction benefits over multiple years; therefore, PG&E must project monetized risk values and costs over the applicable benefit period. The WBCA applies a long-term inflation assumption of 2.28%, derived from Congressional Budget Office (CBO) Consumer Price Index for All Urban Consumers (CPI-U) projections.[8] Consistent with risk-modeling practice, this inflation assumption is

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3 Decision (D.) 23-11-069 p. 676 Table 10-E

4 D.22-12-027, Appendix A, p. A-3 defines a CBA as: "[a] decision-analysis tool for comparing the monetized Benefits of a program, or set of activities, against the costs of the program, or set of activities, to create a measurement of value."

5 2024 RAMP Section C.5.b. p. 2-12.

6 The methodology to derive the CBA Safety Risk Conversation value is consistent with the "Safety Attribute" metric outlined in the 2024 RAMP Section C.5.a. pp. 2-9 through 2-11.

7 The ATWACC used in the WBCA model is based on PG&E's cost of capital authorized in D.24-10-008.

8 PG&E's inflation assumption is based on the Congressional Budget Office (CBO), The 2025 Long-Term Budget Outlook (March 2025), which reports a CPI-U inflation projection of 2.28% for 2054.

used to escalate future costs and monetized risk values and is applied throughout the model on a consistent basis.

- **Real Discount Rate:** The Real Discount Rate is used to calculate the net present value of risk reduction benefits and the lifetime costs for each mitigation considered. A real discount rate of 4.61% is calculated using the Fisher equation, applying the nominal discount rate and inflation rate.

2.1.2. Cost Components

- **Installation Capital Costs:** Installation capital cost assumptions are the assumed capital costs for installation in 2028.
    - Baseline scenario assumes no installation capital costs.
    - Installation costs for the Undergrounding mitigation scenario are derived from planning-level cost estimates used in Screen 2 benefit-cost evaluations. These cost assumptions are informed by historical undergrounding project experience and vary based on project feasibility characteristics such as hard rock conditions, terrain gradient, and water crossings. As projects advance through Screen 3 and beyond, additional scope and engineering information becomes available, and cost estimates are further refined.
    - The Remote Grid mitigation scenario in Screen 2 assumes standard installation costs on a per-customer basis. These costs are subsequently refined as project scope, customer impacts, and implementation requirements are further developed through Screen 3 and subsequent stages of project evaluation. Some Alternative Mitigation 2 Remote Grid projects will have a total cost zero because remote grid costs are based on the number of customers located on the circuit segment. For segments with no customers, there are no remote grid costs to assign, resulting in a total project cost of zero.
    - The OH mitigation scenario in Screen 2 assumes standard installation costs on a per-mile basis. These costs are subsequently refined as project scope, customer impacts, and implementation requirements are further developed through Screen 3 and subsequent stages of project evaluation.
- **O&M Costs:** O&M costs are estimated forecast costs to operate and maintain an asset over its lifetime. O&M costs are evaluated across multiple categories, each with distinct data sources, assumptions, and cost drivers. O&M costs are calculated at the circuit-segment level for the baseline and each mitigation type. The incremental O&M costs associated with each mitigation alternative, relative to the baseline scenario, are then incorporated into the cost component of the WBCA benefit-cost analysis for each project.
    - PG&E Subject Matter Experts (SMEs) reviewed each O&M cost category to identify the most appropriate data sources and forecasting assumptions. Depending on the cost category, O&M assumptions may be based on adopted

GRC forecasts, historical spending patterns, or other program-specific cost analyses.

- PG&E evaluated each O&M cost category to determine how costs would change under the Baseline, Undergrounding, Remote Grid, and OH mitigation scenarios. O&M cost assumptions were developed for each scenario based on the costs expected to be incurred over the asset life and therefore vary by mitigation type.
- For each O&M cost category, the project spend is divided by line miles to derive the unit cost per mile, with the exception of EPSS and Public Safety Power Shutoffs (PSPS) O&M costs, as those costs are represented as a cost per CMI.

Table 1 below summarizes the historical datasets, forecasting assumptions, and calculation methods used for each category, including applicable GRC forecasts, historical expenditures, filtering criteria, and key cost drivers such as unit costs, line mileage, and event assumptions:

Table 1: O&M Cost Categories, Data Sources, and Forecasting Assumptions

Cost Category	Basis for Analysis	Inclusion/Exclusion Filters
Patrols & Inspections	**Overhead** • 4-year average utilizing the 2023 GRC adopted forecast, with escalation, for years 2023 through 2026. • The average unit cost for MATs BFA, BFB, BFC, BFG, and GAA uses the BPD proposed unit cost from the 2024 Q1 Electric Cost Book. • The average unit cost for MATs BFH, BFJ, BFL, BFM, and BFO is based on the 2023 GRC adopted forecast with escalation, using the average costs for 2023 through 2026 divided by the 2023 Primary Overhead Distribution line miles. MAT BF# unit cost uses 2023 actuals from Business Finance. **Underground** • Analysis uses the 2023 GRC adopted forecast, with escalation, for years 2023 through 2026.	**Overhead** • **Includes:** 07A, BFA, BFB, BFC, BFG, BFH, BFJ, BFL, BFM, BFO, GAA, GAC, GAI, and BF#, representing non-PTT pole inspections, number of miles, number of poles tested and treated, and number of poles. • **Excludes:** 07A and GAI are excluded because these MAT codes are not directly aligned to the unit-based patrol and inspection cost drivers (e.g., miles, poles inspected, poles treated) used in the WBCA analysis. As a result, they were removed to ensure only comparable and scalable inspection activities are included. **Underground** • **Includes:** BF4, BFD, and BFE, which are specific to O&M costs for patrols and inspections. • **Excludes:** NA
Maintenance & Repair	• 4-year average utilizing the 2023 GRC adopted forecast, with escalation, for years 2023 through 2026.	• **Includes:** MWCs 07, 08, 2A, 56, KA, KB, and GA, which are specific to O&M costs for maintenance and repair activities. • **Excludes:** NA
Supervision & Engineering	• 4-year average utilizing the 2023 GRC adopted forecast, with escalation, for years 2023 through 2026. • The average unit cost for the engineering MAT codes selected was calculated using the average of the 2023 GRC adopted forecast for years 2023 through 2026.	• **Includes**: MAT codes FZA, FZB, FZC, FZD, and FZE, which are used for engineering and are applied on a unit cost per mile basis. • **Excludes**: NA
PSPS	• 4-year average utilizing the 2023 GRC adopted forecast, with escalation, for years 2023 through 2026. • The analysis uses the 2023 GRC adopted forecast because, during the 2023 GRC filing, the PSPS program was relatively new and reflected two full PSPS seasons in 2019 and 2020.	• **Includes**: MAT AB6, limited to the work category “Public Safety Power Shutoff - PSPS Event (Distribution),” representing event-driven PSPS execution costs. • **Excludes**: All other activities within AB6 that would not be directly impacted by undergrounding, including fixed PSPS program

Cost Category	Basis for Analysis	Inclusion/Exclusion Filters
	• The PSPS event forecast assumes three PSPS events, plus one additional potential or borderline event per year, based on a 10-year historical weather analysis. • Cost per event is based on the average cost per event over 2019 and 2020.	costs and activities not directly related to severe weather that can lead to PSPS execution.
Major Outage & Emergency	• 5-year average utilizing 2020 through 2024 historical costs. • The analysis uses recorded data for 2020 through 2024 because the major emergency forecast is driven by a 5-year average of actual costs.	• **Includes**: MATs 95A, 95B, 95F, IFB, IFA, IFC, and IFF, which are specific to O&M costs for major outage and emergency activities. • **Excludes**: Major fire rebuild expenses (MAT 95F) are not included in the cost-per-mile calculations.
Routine Outage & Emergency	• 2024 historical costs. • A 2 percent growth factor is applied to the 2024 recorded data and then divided by overhead miles to develop a cost per mile by division. • This approach was used because it provides a better estimate of future routine spend and reflects year-over-year growth in both units and dollars that was not captured in the 2023 GRC forecast at the time it was submitted.	• **Includes:** MATs 17B, 17C, 17D, 17P, BHD, BHG, BHH, BHB, and BHC, representing Routine Emergency response spend used in the WBCA analysis. • **Excludes:** BHE is excluded because it is already captured in overhead-related activities and including it would result in double counting. • **Additional Context:** MAT BHE is part of the overall Routine Emergency program spend but was removed from the WBCA cost-per-mile calculations to avoid duplication.

EPSS	• 2024 historical costs.
	• The analysis uses 2024 historical actuals to ground the cost estimates in observed data rather than forecasts, support a more accurate and conservative basis for evaluating undergrounding benefits, align with outage risk modeling outputs, and support cost-per-CMI calculations using actual spending tied to MAT codes directly impacted by undergrounding.
		• **Includes:** 09B, 3US, 49H, 49T, 49X, BHE, IG# utilized for EPSS CMI analysis.
		• **Excludes:** All other EPSS-related MAT codes that are not directly impacted by undergrounding are excluded from avoided cost consideration.
		• **Additional Details:**
		  • The EPSS Cost per Customer Minute Interrupted (CMI) analysis utilizes MAT codes 09B, 3US, 49H, 49T, 49X, BHE, IG#.
		  • All other EPSS-related MAT codes include activities not directly impacted by undergrounding and are therefore excluded.
		  • 09B – Dist. Sub IPAC Replacement: Supports EPSS and DCD functionality by replacing outdated relays.

Cost Category	Basis for Analysis	Inclusion/Exclusion Filters
		• 3US – DCD Radio Comms: Enables Downed Conductor Detection (DCD); added since GRC 2023. • 49H / 49T / 49X – ED Reliability: Targets poor-performing circuits; 49X includes fault indicators and sectionalization. • BHE – Outage Response: Covers patrols and response efforts during EPSS events. • IG# – Helicopter Standby: Supports aerial patrols for EPSS reliability. • **Additional Context:** Per Decision (D.) 23-11-069, the Commission adopted PG&E's 2023 expense forecast for EPSS at $151.129 million (p.317). The EPSS costs reflected in our workbooks represent an approximate 40% portion of the total EPSS budget that was approved in the 2023 GRC. This demonstrates that the EPSS related costs included here are relatively small subset of the overall authorized EPSS funding.
Vegetation Management	• Vegetation Management O&M data used in the analysis consists of the 2027 GRC forecasted cost, in consideration of PG&E's focus on reducing vegetation costs for ratepayers. • To address outliers and gaps in the recorded Vegetation Management O&M data, a linear regression analysis was applied using a tree tag to tree strike ratio. The regression model is applied only to circuit segments that are above or below one standard deviation from the mean tree tag to tree strike ratio. This analysis yielded a circuit-segment per-mile Vegetation Management O&M unit cost, rather than applying a uniform distribution of Vegetation Management O&M cost across all circuit-segments. • In response to Data Request CalAdvocates-PGE-NonCase-MMH-01162026-ICE_and_VM, PG&E provided the linear regression analysis workbook with the underlying assumptions and basis for the analysis. Please refer to the previously provided attachment DRU16828_System Hardening_DR_CPUC_D001Atch04.xlsx for additional information.	• **Includes:** HN and IG, which are Vegetation Management MAT/MWC codes. • **Excludes:** NA

Cost Category	Basis for Analysis	Inclusion/Exclusion Filters
Estimated External Fire Rebuild	• Forecasted costs associated with repairing and replacing distribution assets damaged by external wildfires (i.e., not caused by PG&E utility equipment or operations). • Costs are informed by a wildfire risk assessment that evaluates the expected frequency of wildfire impacts to distribution assets within Tier 2 and Tier 3 High Fire Threat Districts. • The analysis estimates expected annual rebuild costs based on asset exposure, replacement costs, and climate-adjusted wildfire risk forecasts, and provides a forward-looking estimate of wildfire-related rebuild expenditures.	• **Includes:** See Basis for Analysis. • **Excludes:** Historical fire rebuild costs are excluded in lieu of these estimates.

2.2. Mitigation Effectiveness Inputs

The descriptions below provide a high-level overview of the datasets, analyses, and assumptions used to estimate mitigation effectiveness for each risk category evaluated in the WBCA model. Additional methodology details, supporting calculations, source data, and derivation of mitigation effectiveness values are documented in PG&E's Attach. B, WP001 (Mitigation Effectiveness Analysis).

- **Mitigation Effectiveness Sources:**
    - **Wildfire Mitigation Effectiveness:** The WBCA model calculates wildfire mitigation effectiveness at the circuit-segment level using results from PG&E's Wildfire Mitigation Effectiveness Analysis. Historical outage events are categorized based on factors such as outage cause, equipment involved, and equipment condition. Subject matter experts evaluate how effectively each mitigation alternative would prevent ignition across these outage scenarios, and the resulting effectiveness values are mapped to the ignition-likelihood drivers used in the Wildfire Distribution Risk Model (WDRM). Circuit-segment-specific wildfire mitigation effectiveness is then calculated by weighting these effectiveness values according to the relative contribution of each ignition driver to the segment's overall ignition risk.
    - **PSPS Outage Risk:** PSPS mitigation effectiveness is based on whether a mitigation alternative removes the overhead infrastructure exposure that gives rise to PSPS-related outage risk. Mitigations that eliminate exposure of overhead assets to weather-driven de-energization conditions, such as undergrounding and line removal, also eliminate the PSPS-related outage risk associated with those facilities. Overhead mitigations which leave those exposure pathways in place are assumed to provide no PSPS risk reduction.
    - **EPSS Outage Risk:** EPSS mitigation effectiveness is based on whether a mitigation alternative removes or reduces the overhead infrastructure exposure that gives rise to EPSS-related outage risk. This exposure is associated with weather-related and other external drivers that can result in EPSS-triggered outages. Mitigations that eliminate all overhead asset exposure, such as undergrounding and line removal, are assumed to eliminate the EPSS-related outage risk associated with those facilities. Overhead hardening with covered conductor is assumed to reduce but not eliminate EPSS-related risk by reducing the frequency of faults that would result in EPSS outages.
    - **Baseline Outage Risk:** Baseline Outage Risk effectiveness measures the extent to which a mitigation reduces non-PSPS and non-EPSS outage impacts. For undergrounding, effectiveness is estimated empirically by comparing historical reliability performance of underground and overhead systems using normalized outage-duration metrics. For overhead mitigation alternatives, effectiveness is estimated through analysis of historical outage profiles and SME assessment of how frequently the mitigation would prevent or reduce outage-causing events.

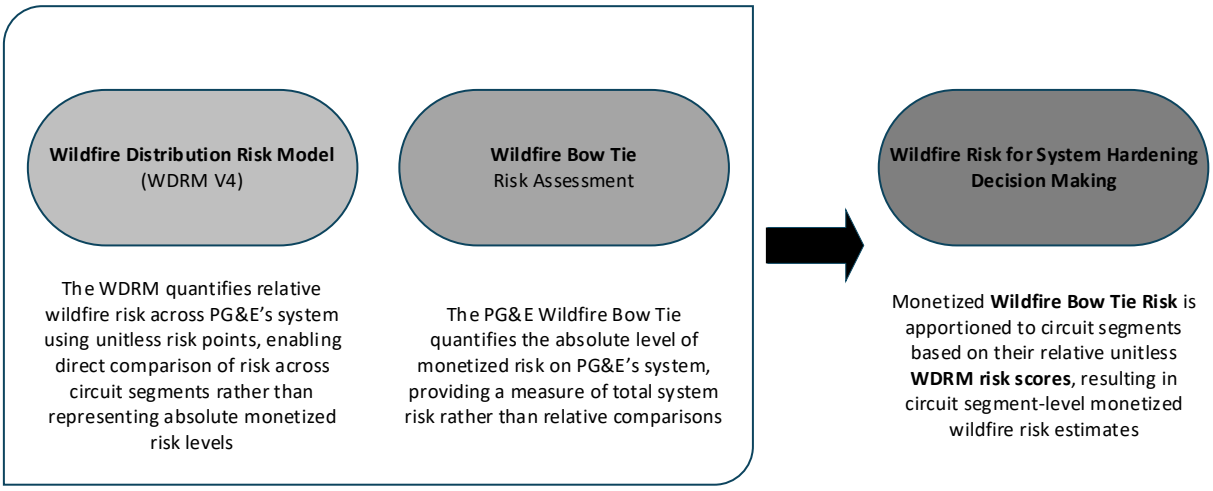
- **Public Safety (PCEEE) Mitigation Effectiveness:** The estimated Third-Party/Public Safety Mitigation Effectiveness of undergrounding is evaluated by comparing historic rates of Equivalent Fatalities (EFAT) attributed to Distribution Overhead and Distribution Underground assets normalized by their respective mileages. For overhead mitigations which do not materially change public exposure to energized equipment, no reduction in PCEEE risk is assumed.

2.3. Risk Exposure Inputs

The primary risk inputs are: Wildfire Risk, PSPS Risk, EPSS Risk, Baseline Outage Risk and Public Safety (PCEEE) Risk. These inputs are evaluated separately because they represent different types of risk, rely on different upstream datasets, and are mitigated in different ways. The WBCA then combines the monetized risk reduction from each category to estimate the total lifetime benefit of each mitigation alternative.

- **Wildfire Risk:** Wildfire risk represents the potential for overhead distribution assets to cause an ignition resulting in wildfire consequences. WBCA estimates wildfire exposure using two primary inputs: the Wildfire Distribution Risk Model (WDRM) and PG&E's Enterprise Wildfire Bowtie analysis. The WDRM provides circuit-segment-level estimates of relative ignition risk, while the Enterprise Bowtie provides the system-level monetized wildfire risk used in PG&E's enterprise risk framework. Consistent with the WBCA baseline assumption, the incorporated Bowtie output reflects residual wildfire risk after accounting for the system-level risk reduction provided by PSPS and EPSS as existing operational mitigations. WBCA allocates this monetized post-PSPS-post-EPSS wildfire risk across circuit segments based on their relative WDRM risk scores to derive circuit-segment-level wildfire exposure values. Figure 3 below summarizes how these datasets are combined to estimate circuit-segment-level wildfire exposure:

Figure 3. Calculation of Circuit-Segment-Level Wildfire Risk Using WDRM and Enterprise Bowtie Risk Inputs



- **PSPS Risk:** PSPS risk represents the customer reliability and safety impacts associated with Public Safety Power Shutoff events. WBCA evaluates PSPS risk separately to capture the benefits of mitigation alternatives that reduce the need for PSPS activations. Circuit-segment-level PSPS risk is derived from the Outage Program Risk Model (OPRM), which quantifies the reliability impacts of PSPS events, together with indirect safety risk from PG&E's Enterprise PSPS Bowtie analysis. The indirect safety risk is allocated to circuit segments based on each segment's share of total system PSPS risk.
- **EPSS Risk:** EPSS Risk represents the customer reliability and safety impacts associated with Enhanced Powerline Safety Settings. WBCA evaluates EPSS risk separately to capture the benefits of mitigation alternatives that reduce EPSS outages. Circuit-segment-level EPSS risk is also derived from the OPRM, which quantifies the reliability impacts of EPSS-related outages, together with indirect safety risk from PG&E's Enterprise EPSS Bowtie analysis. The indirect safety risk is allocated to circuit segments based on each segment's share of total system EPSS risk.
- **Baseline Outage Risk:** Baseline Outage risk represents reliability risk from sustained outages that are not attributable to EPSS or PSPS. In other words, it captures the outage risk expected during normal operations, excluding customer interruptions caused by wildfire mitigation outage programs. Circuit-segment-level Baseline Outage risk is also derived from the OPRM, which quantifies the reliability impacts of these outages, together with indirect safety risk from PG&E's Enterprise DOVHD Bowtie analysis. The indirect safety risk is allocated to circuit segments based on each segment's share of Baseline Outage CMI.
- **Public Safety Risk:** Public safety risk represents non-wildfire safety risk associated with overhead electric distribution assets. This includes risks such as public contact with energized electrical equipment, downed energized conductors, and other non-wildfire

safety events involving distribution infrastructure. WBCA evaluates public safety risk separately because it captures direct safety consequences that are distinct from wildfire and outage-related risks. Circuit-segment-level public safety exposure is derived from PG&E's PCEEE Enterprise Bowtie analysis, which provides the system-level monetized public safety risk. This risk is allocated across primary overhead distribution line miles to estimate circuit-segment-level public safety exposure.

- **Climate Assumptions:** Because mitigation benefits are evaluated over multiple decades, the WBCA applies climate multipliers to reflect projected changes in risk exposure over time. These multipliers are based on two key variables that capture the effects of changing weather conditions on wildfire risk and equipment performance:
    - *Fire Weather Index (FWI) Analysis:* The FWI variable measures the annual number of days per circuit segment that exceeds the historical 95th percentile FWI value, calculated using baseline data from 1995-2014. The FWI is a generalized measure of fire potential that incorporates both fuel aridity and fire weather conditions, regardless of fuel type or abundance. It is calculated using daily maximum temperature, minimum relative humidity, average wind speed, and precipitation. Changes in the frequency of high-FWI days impact the probability that an ignition occurs during Red Flag Warning (RFW) conditions. Since ignitions associated with RFW conditions have higher per-event consequences than non-RFW ignitions, a risk multiplier for RFW outcomes is calculated at the circuit segment level. This multiplier scales proportionally with increases in annual days exceeding the historical 95th percentile Fire Weather Index.[9]
    - *Heat Day Analysis:* Equipment failure rates are modeled to increase proportionally with the frequency of continued heat events. These events are defined as periods of three consecutive days exceeding 92°F where both daily highs and lows surpass their respective 10-year averages. A heat-based equipment-failure frequency multiplier is calculated at the circuit segment level to capture climate-driven changes in sustained heat exposure.

Application of Climate Multipliers: The multipliers are applied to the relevant risk categories. The FWI multiplier is applied to Wildfire, PSPS and EPSS risks, and the heat multiplier is applied to Wildfire, EPSS,[10] and Baseline Outage risks, ensuring that

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9 Climate projections are derived from the ensemble average of wildfire risk simulations driven by eight downscaled Global Climate Models under the SSP3-7.0 scenario. Future exceedance counts are valuated using projected climate conditions averaged over 20-year windows centered on 2030, 2050, and 2080.

10 Note that the following equipment-based outages are excluded from the analysis for EPSS: (a) transformer outages because they occur on secondary conductors and cannot be detected by EPSS-enabled devices, (b) switch outages because they cannot be triggered by EPSS-enabled devices, and (c) forced outages because they occur due to human decisions rather than being automatically triggered by EPSS-enabled devices.

climate impacts are appropriately reflected across all relevant risk categories. The WBCA applies the corresponding climate multipliers to these risk categories as reflected in the risk-specific exposure calculations. PG&E develops annual climate factors for each year of the WBCA benefit period and applies the applicable climate factor in the risk calculations starting in the baseline year. These annual climate factors are used to reflect projected changes in wildfire and outage risk over the life of the evaluated mitigation alternative. Public safety risk is not climate-adjusted because the non-wildfire public safety events evaluated in the WBCA, such as contact with live downed wires, are not expected to be materially affected by climate change.

3. Calculations

PG&E uses Benefit-Cost Ratios (BCRs) to evaluate the long-term benefits of a project. To derive BCR, the following metrics must be calculated:[11]

- **Lifetime Risk Benefit**: Wildfire, Public Safety, Baseline Outage, EPSS, PSPS
- **Lifetime Costs** of the Project including installation capital costs and incremental O&M costs relative to the baseline.

3.1. Risk Benefit Calculations

Risk-reduction benefit calculations quantify the estimated reduction in monetized risk associated with implementation of a mitigation alternative on a circuit segment. The WBCA evaluates five categories of risk-reduction benefits: Wildfire, Public Safety, Baseline Outage, EPSS, and PSPS. Each category is assessed separately because it relies on different underlying datasets, risk drivers, and mitigation effectiveness assumptions.

For each risk category, risk-reduction benefit is calculated as the product of risk exposure and mitigation effectiveness. Risk exposure represents the monetized pre-mitigation risk attributed to a circuit segment, and mitigation effectiveness represents the percentage reduction in that risk resulting from implementation of the mitigation alternative. Circuit-segment-level risk is derived by combining circuit-segment data and system-level monetized risk estimates from PG&E's Enterprise Risk Bowties. Risk exposure values are escalated to the adopted baseline year using the applicable climate and/or inflation assumptions before calculating lifetime benefits. The following sections describe the calculation methodology for each risk category.

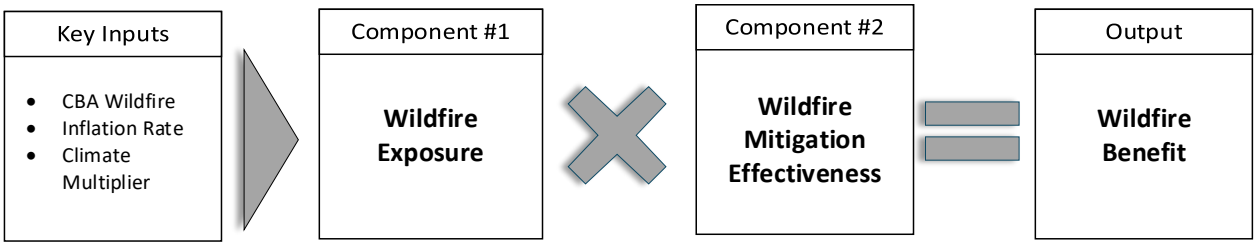
3.1.1. Wildfire Benefit

Overview: Wildfire benefit quantifies the wildfire risk reduction associated with each circuit segment when a particular mitigation is implemented. PG&E calculates Wildfire Benefit as the product of two components: Wildfire Exposure ($millions) and Wildfire Mitigation Effectiveness.

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[11] BCR is calculated in accordance with the RDF (R.20-07-013); Decision (D.)22-12-027.

Figure 4: Wildfire Benefit Calculation



Where:

Component	Description / Formula
Wildfire Exposure ($M)	(Current Year Post-PSPS-Post-EPSS Wildfire Exposure ($M)) × (Climate Multiplier) × (1 + Inflation Rate)$^{(Escalated)}$ Where: Current Year Post-PSPS-Post-EPSS Wildfire Exposure ($M) = WDRM Risk Points × Total CBA per Unit for Wildfire And: Total CBA per Unit for Wildfire = (Enterprise WLDFR Post-PSPS-Post-EPSS Risk ($M)) ÷ (WDRM Total Risk Points)
Wildfire Mitigation Effectiveness	Input from PG&E's Mitigation Effectiveness analysis. Additional methodology details, supporting calculations, and effectiveness derivations are documented in PG&E's WP001 Mitigation Effectiveness White Paper.

Wildfire Exposure is calculated using WDRM risk scores as the basis for allocating system-level monetized wildfire risk to circuit segments. Total monetized Post-PSPS-Post-EPSS wildfire risk, as evaluated through PG&E's Enterprise Wildfire Risk Model, is divided by total system-wide WDRM risk points to calculate the wildfire CBA per WDRM risk point. Each circuit segment's WDRM risk points are then multiplied by this unitized value to estimate current-year Post-PSPS-Post-EPSS wildfire exposure.

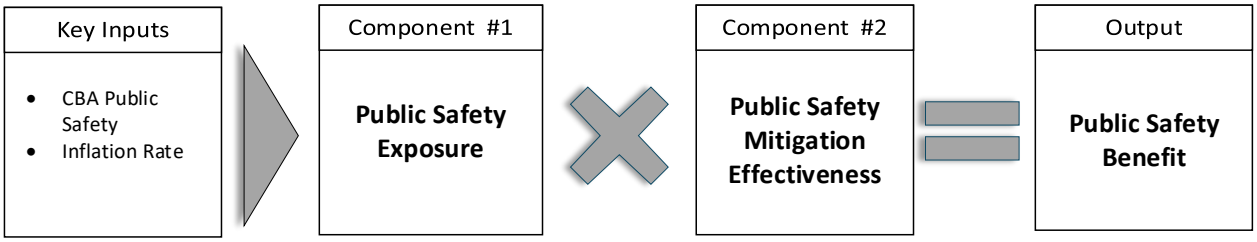
The current-year risk exposure value is then adjusted using a climate multiplier, which reflects the estimated impact of projected climate conditions as of the WBCA baseline year used for benefit-cost calculations. The resulting exposure value is then escalated using the applicable inflation assumption. Lifetime wildfire exposure is subsequently calculated by applying the applicable climate-adjusted present value factor over the benefit period.

3.1.2. Public Safety Benefit

Overview: Public Safety Benefit quantifies the non-wildfire public safety risk reduction associated with each circuit segment when a particular mitigation is implemented. Public safety (PCEEE) risk includes non-wildfire safety risks involving overhead electric distribution assets,

such as public contact with energized equipment, downed energized conductors, and similar events. PG&E calculates Public Safety Benefit as the product of two components: Public Safety Exposure and Public Safety Mitigation Effectiveness.

Figure 5: Public Safety Benefit Calculation



Where:

Component	Description / Formula
Public Safety Exposure ($M)	$(\text{Primary Overhead Miles}) \times (\text{Public Safety CBA per Unit}) \times (1 + \text{Inflation Rate})^{(\text{escalated})}$ Where: Public Safety CBA per Unit = (Enterprise Electric Distribution Overhead PCEEE Risk ($M)) ÷ (Electric Distribution Overhead Circuit Line Miles) And: PCEEE refers to the Public Contact with Intact Energized Electrical Equipment Enterprise Risk Model.
Public Safety Mitigation Effectiveness	Input from PG&E's Mitigation Effectiveness analysis. Additional methodology details, supporting calculations, and effectiveness derivations are documented in PG&E's WP001 Mitigation Effectiveness White Paper.

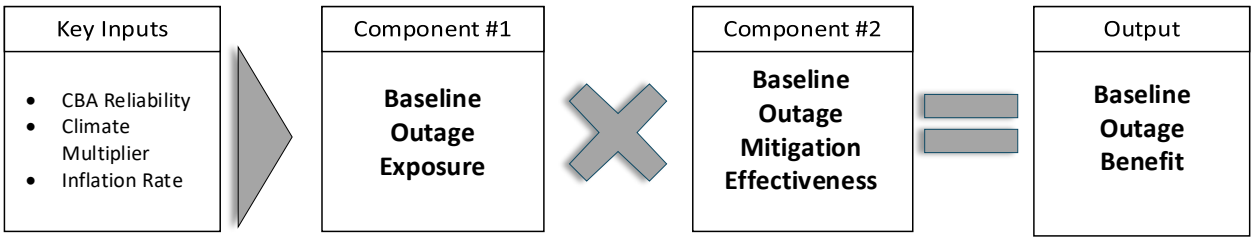
Public Safety Exposure is calculated by allocating PG&E's system-level non-wildfire public safety risk to circuit segments based on primary overhead distribution line miles. The system-level public safety risk value is derived from PG&E's PCEEE Bowtie Model and divided by total primary overhead circuit line miles to calculate the public safety risk value per overhead mile. Each circuit segment's primary overhead mileage is then multiplied by this unitized value to estimate current-year public safety exposure.

The current-year exposure value is adjusted to the adopted baseline year using the applicable inflation factor. Public Safety Mitigation Effectiveness is an input from PG&E's Mitigation Effectiveness analysis and represents the estimated percentage reduction in non-wildfire public safety risk for the applicable mitigation alternative. Additional methodology details are documented in PG&E's Mitigation Effectiveness white paper.

3.1.3. Baseline Outage Benefit

Overview: Baseline Outage Benefit quantifies the reduction in monetized baseline outage risk associated with each circuit segment when a particular mitigation is implemented. Baseline outage risk includes non-PSPS and non-EPSS customer interruptions occurring during normal system operations and is measured using customer minutes interrupted (CMI). PG&E calculates Baseline Outage Benefit as the product of two components: Baseline Outage Exposure and Baseline Outage Mitigation Effectiveness.

Figure 6: Baseline Outage Benefit Calculation



Where:

Component	Description / Formula
Baseline Outage Risk Exposure ($M)	((Baseline Outage Risk) + (Baseline Outage Annual CMI) × (DOVHD Indirect Safety CBA per Unit)) × (Climate Multiplier) × (1 + Inflation Rate)$^{(escalated)}$ Where: DOVHD Indirect Safety CBA per Unit = (Enterprise DOVHD Indirect Safety Risk ($M)) ÷ (Total Distribution Baseline Outage CMI) And: DOVHD refers to the Failure of Electric Distribution Overhead Assets Enterprise Risk Model.
Baseline Outage Mitigation Effectiveness	Input from PG&E's Mitigation Effectiveness analysis. Additional methodology details, supporting calculations, and effectiveness derivations are documented in PG&E's WP001 Mitigation Effectiveness White Paper.

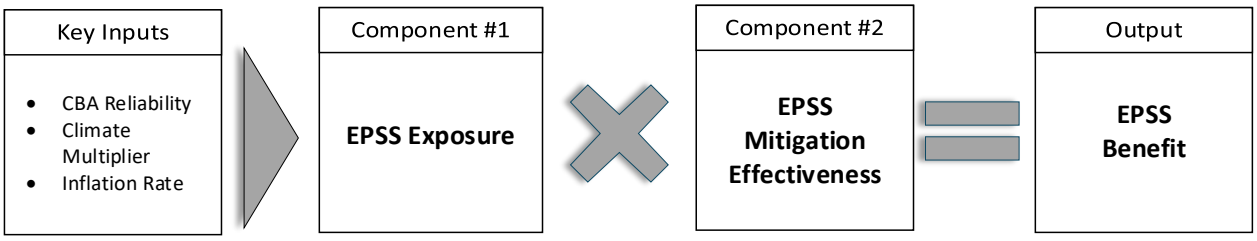
Baseline Outage Exposure is calculated by combining the monetized baseline outage risk and the indirect safety risk associated with customer interruptions. Baseline outage risk reflects the dollarized reliability impact of non-PSPS and non-EPSS outages. The indirect safety component is derived from PG&E's DOVHD Bowtie Model and allocated across total distribution baseline outage CMI to calculate the reliability indirect safety cost-benefit value per CMI. Each circuit segment's baseline outage CMI is then multiplied by this unitized value and added to the dollarized baseline outage risk to estimate current-year Baseline Outage risk exposure.

The current-year exposure value is adjusted to the adopted baseline year using the applicable inflation factor and, where applicable, the corresponding climate-adjusted present-value factor over the benefit period. Baseline Outage Mitigation Effectiveness is an input from PG&E's Mitigation Effectiveness analysis and represents the estimated percentage reduction in baseline outage risk for the applicable mitigation alternative. Additional methodology details are documented in PG&E's Mitigation Effectiveness white paper.

3.1.4. EPSS Benefit

Overview: EPSS Benefit quantifies the change in monetized outage risk associated with Enhanced Powerline Safety Settings when a mitigation alternative either introduces, reduces, or removes the overhead exposure that gives rise to EPSS-related interruptions. EPSS risk reflects customer interruptions caused by EPSS operations and is measured using customer minutes interrupted (CMI). These interruption impacts are converted to a monetized reliability-risk value using the CBA Reliability Risk Conversion (i.e., value of service) described in Section 2.1.1 and incorporated within the OPRM outage-risk outputs used by the WBCA. PG&E calculates EPSS Benefit as the product of two components: EPSS Exposure and EPSS Mitigation Effectiveness.

Figure 7: EPSS Benefit Calculation



Where:

Component	Description / Formula
EPSS Exposure ($M)	((EPSS Outage Risk) × (1 + EPSS Indirect Safety Multiplier)) × (Climate Multiplier) × (1 + Inflation Rate)$^{(escalated)}$ Where: EPSS Indirect Safety Multiplier = (Enterprise EPSS Indirect Safety Risk ($M)) ÷ (Total System EPSS Outage Risk ($M))
EPSS Mitigation Effectiveness	Input from PG&E's Mitigation Effectiveness analysis. Additional methodology details, supporting calculations, and effectiveness derivations are documented in PG&E's WP001 Mitigation Effectiveness White Paper.

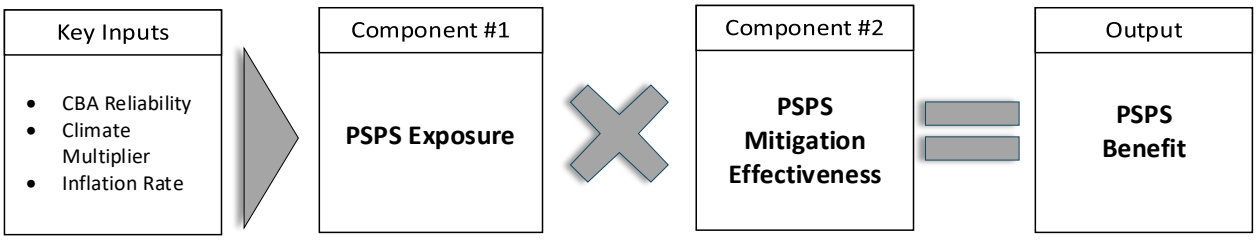
EPSS Exposure is calculated by combining the monetized EPSS outage risk and the indirect safety risk associated with EPSS-related customer interruptions. EPSS outage risk reflects the dollarized reliability impact of customer interruptions caused by EPSS operations. The indirect safety component is derived from PG&E's Enterprise EPSS Bowtie analysis and allocated across total system EPSS risk to calculate the EPSS indirect safety risk component. These components are combined to estimate current-year EPSS exposure for alternatives where EPSS-related impacts are evaluated.

The current-year exposure value is adjusted to the adopted baseline year using the applicable climate multiplier and inflation factor. Lifetime EPSS exposure is then calculated by applying the applicable climate-adjusted present-value factor over the benefit period. EPSS Mitigation Effectiveness is an input from PG&E's Mitigation Effectiveness analysis and represents the estimated percentage change in EPSS-related outage risk for the applicable mitigation alternative. Additional methodology details are documented in PG&E's Mitigation Effectiveness white paper.

3.1.5. PSPS Benefit

Overview: PSPS Benefit quantifies the reduction in monetized outage risk associated with Public Safety Power Shutoff events when a mitigation alternative removes the overhead exposure that gives rise to PSPS-related interruptions. PSPS risk reflects customer interruptions caused by PSPS activations and is measured using customer minutes interrupted (CMI), which are converted to a monetized reliability-risk value using the CBA Reliability Risk Conversion (i.e., value of service). As shown in Figure 8 below, PG&E calculates PSPS Benefit as the product of two components: PSPS Exposure and PSPS Mitigation Effectiveness.

Figure 8: PSPS Benefit Calculation



Where:

Component	Description / Formula
PSPS Exposure ($M)	((PSPS Outage Risk)[12] × (1 + PSPS Indirect Safety Multiplier)) × (Climate Multiplier) × (1 + Inflation Rate)$^{(escalated)}$ Where: PSPS Indirect Safety Multiplier = (Enterprise PSPS Indirect Safety Risk ($M)) ÷ (Total System PSPS Outage Risk ($M))
PSPS Mitigation Effectiveness	Input from PG&E's Mitigation Effectiveness analysis. Additional methodology details, supporting calculations, and effectiveness derivations are documented in PG&E's WP001 Mitigation Effectiveness White Paper.

PSPS Exposure is calculated by combining the monetized PSPS outage risk and the indirect safety risk associated with PSPS-related customer interruptions. PSPS outage risk reflects the dollarized reliability impact of customer interruptions caused by PSPS activations. The indirect safety component is derived from PG&E's Enterprise PSPS Bowtie analysis and allocated across total system PSPS risk to calculate the PSPS indirect safety risk component. These components are combined to estimate current-year PSPS exposure.

The current-year exposure value is adjusted to the adopted baseline year using the applicable climate multiplier and inflation factor. Lifetime PSPS exposure is then calculated by applying the applicable climate-adjusted present-value factor over the benefit period. PSPS Mitigation Effectiveness is an input from PG&E's Mitigation Effectiveness analysis and represents the estimated percentage reduction in PSPS-related outage risk for the applicable mitigation alternative. Mitigation alternatives that remove overhead facilities from PSPS exposure, such as Undergrounding and Remote Grid with line removal, are credited with reducing PSPS-related outage risk. Overhead mitigation alternatives that leave the relevant exposure pathway in place are assumed not to reduce PSPS-related outage risk. Additional methodology details are documented in PG&E's Mitigation Effectiveness white paper.

3.2. Lifetime Cost Calculations

Overview: The WBCA calculates lifetime costs for each mitigation scenario using two primary cost components: initial capital costs and O&M costs. Initial capital costs reflect the one-time cost to install the mitigation alternative. O&M costs reflect the recurring costs to operate,

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12 The PSPS Outage Risk output from the OPRM reflects an unadjusted reliability-risk value and does not incorporate PG&E's adopted enterprise risk attitude. Accordingly, WBCA applies a PSPS scaling factor derived from PG&E's Enterprise PSPS Bowtie analysis. The scaling factor is calculated as the Enterprise PSPS Bowtie Risk Score divided by the corresponding unadjusted risk value (natural-unit exposure multiplied by value-of-service assumptions). This derived scaling factor is then applied to the OPRM PSPS Outage Risk output to align PSPS risk values with PG&E's enterprise risk framework.

maintain, inspect, repair, or otherwise support the asset over its applicable life. For each mitigation alternative, the WBCA evaluates the present value of initial capital costs and incremental lifetime O&M costs relative to the baseline scenario. Incremental O&M costs are evaluated across multiple recurring cost categories, as described in Table 1 (Section 2.1.2), and are subsequently aggregated into the lifetime cost denominator used in the BCR calculation.

3.2.1. Initial Capital Spend

Capital Spend: Initial Capital Spend is calculated by applying planning-level installation capital cost assumptions to the primary overhead HFTD mileage addressed by each mitigation alternative. For undergrounding, these assumptions are applied on a per-mile basis to the HFTD portions of the circuit segment and adjusted for feasibility characteristics such as hard rock conditions, terrain gradient, and water crossings. The feasibility adjustment is informed by historical undergrounding project experience and is used to support Screen 2 benefit-cost evaluations. As projects advance through Screen 3 and subsequent stages of evaluation, additional scope, engineering, constructability, customer impact, and implementation information becomes available, and cost estimates are refined accordingly. The resulting installation capital cost is converted to a present-value revenue requirement using PG&E's applicable PVRR multiplier before being included in the lifetime cost component of the BCR calculation.

Formula
$$\boldsymbol{Lifetime\ Capital\ Spend}\ (\boldsymbol{Millions}\ \$) = (Primary\ Overhead\ HFTD\ Miles) * (Installation\ Capital\ Cost\ per\ Mile + Feasibility\ Multiplier * HF\ Feasibility\ Score) * PVRR$$

3.2.2. O&M Costs

O&M Costs reflect the recurring costs to operate, maintain, inspect, repair, and otherwise support the mitigation alternative over its applicable life. For WBCA purposes, O&M costs are evaluated as incremental lifetime costs relative to the baseline scenario and are converted to present value using the applicable real discount rate. Consistent with the cost categories summarized in Section 2.1.2, the model evaluates O&M costs using category-specific data sources, forecasting assumptions, and cost drivers. These categories include recurring maintenance and inspection activities, vegetation management associated with overhead facilities, outage-program costs associated with EPSS and PSPS operations, and forecast rebuild costs for distribution assets damaged by wildfires not caused by utility equipment or operations. Most O&M categories are modeled using cost-per-mile assumptions applied to the relevant overhead mileage, while EPSS and PSPS-related O&M costs are modeled on a cost-per-CMI basis because the underlying cost driver is customer interruption exposure rather than line mileage. For each category, O&M costs are estimated for the baseline and applicable mitigation alternatives, and the incremental difference relative to the baseline is included in the lifetime cost component of the BCR calculation.

Formula
$$\textbf{Present Value of O\&M Costs} = \sum_{t=1}^{\textbf{Asset Lifetime}} \frac{\textbf{Annual O\&M Costs}}{(1+\textbf{Real Discount Rate})^{t-1}}$$

Annual O&M costs are converted to present value O&M costs by projecting the applicable annual cost stream over the expected asset life and discounting those future costs to present value using the real discount rate. This calculation is performed separately for both the baseline scenario and each mitigation alternative using the applicable cost assumptions. The net lifetime O&M cost attributable to a mitigation is then calculated as the difference between the mitigation lifetime O&M cost and the baseline lifetime O&M cost. This incremental lifetime O&M cost is included in the lifetime cost denominator used in the BCR calculation.

4. Output

The WBCA evaluates the lifetime costs and monetized risk-reduction benefits of each mitigation alternative at the circuit-segment level. For each evaluated mitigation, the model produces a BCR, which compares the present value of lifetime risk-reduction benefits to the present value of lifetime costs. The BCR provides a consistent framework for comparing mitigation alternatives across circuit segments and supports wildfire mitigation planning by identifying where specific mitigations provide the most significant risk reduction relative to cost.

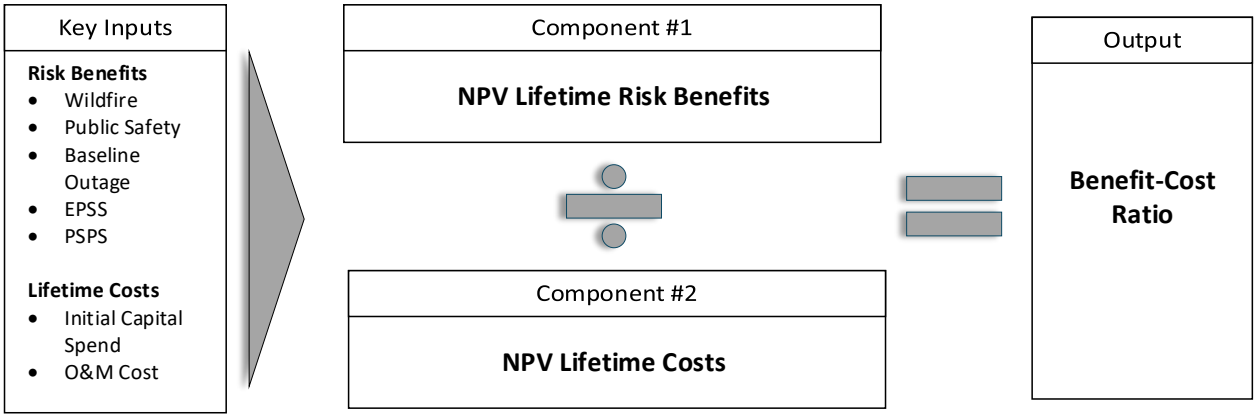
PG&E evaluates WBCA outputs alongside additional planning considerations that are outside the scope of the model, including factors such as ingress/egress considerations, residual tree-strike exposure, constructability constraints, and other program-specific requirements. As a result, WBCA serves as an important decision-support input, but is not the sole determinant of mitigation selection.

4.1. Benefit Cost Ratio Calculation (BCR)

Overview: The BCR provides a point-in-time estimate of the relative value of a mitigation alternative by comparing the present value of lifetime risk-reduction benefits to the present value of lifetime costs. The BCR is based on the model inputs, assumptions, and system conditions represented in the WBCA analysis and should be interpreted as a comparative planning metric rather than a prediction of future realized outcomes. A higher BCR indicates that a mitigation achieves greater risk reduction per dollar spent relative to alternatives with lower BCR values based on this point-estimate.

Figure 9 illustrates the overall BCR framework. The numerator consists of the net present value (NPV) of lifetime mitigated risk, including wildfire, public safety, Baseline Outage, EPSS, and PSPS benefits. The denominator consists of the NPV of all lifetime mitigation costs, including installation capital costs and incremental O&M costs relative to the baseline. The resulting ratio provides a standardized measure for comparing mitigation alternatives on a consistent basis across circuit segments.

Figure 9: Benefit Cost Ratio Calculation



Where:

Formula
$$\boldsymbol{BCR} = \frac{(NPV\ Lifetime\ Risk\ Benefit)}{(NPV\ Lifetime\ Costs)}$$

Where:

- **NPV Lifetime Risk Benefit** = Present value of the sum of Wildfire, Public Safety, Baseline Outage, EPSS, and PSPS risk-reduction benefits over the applicable asset life.
- **NPV Lifetime Costs** = Present value of installation capital costs and incremental lifetime O&M costs associated with the mitigation alternative.

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP007

UNDERGROUNDING RESOURCE MODEL

Workpaper 007
Pacific Gas and Electric Company
Electrical Undergrounding Program
Undergrounding Resource Model

Programmmatic Forecast - Required Effort to Deliver Planned Miles **EUP Summary View: Chapter 5 Section 2 Summary of Resources**	
Resourcing Teams	**Yearly Max Head Count (2028-2037)**
Project Management	162
Scoping	25
Estimating	50
Customer Outreach	37
Encroachment	111
Land	477
Environmental	319
Construction Management	53
Civil Construction	709
Electric Construction	84
Post-Construction	11

Workpaper 007
Pacific Gas and Electric Company
Electrical Undergrounding Program
Undergrounding Resource Model
Assumptions

Key Assumptions Used to Build the Resource Model	
Project Size	The resource model uses a miles-based approach to determine the required effort to deliver one mile of undergrounding (FTE/mile). Project size and difficulty have been consolidated and incorporated into the outputs from the productivity analysis and inform productivity rates.
Annual Mileage Target	The annual mileage targets are based on the overall program strategy as filed in the EUP. As planning scenarios are evaluated and implemented, the modeled mileage trajectory can be revised.
Construction Seasonality	Construction Seasonality was developed using the available construction schedule information and aggregates underground miles based on when construction starts and finishes in terms of months, regardless of the year of construction.
Schedule	The schedule assumptions are based on undergrounding project phase data (e.g. scoping, dependencies, construction etc., referred to as Workstream Progression data) developed by the Program to set non-construction target miles and is aligned with construction target miles.

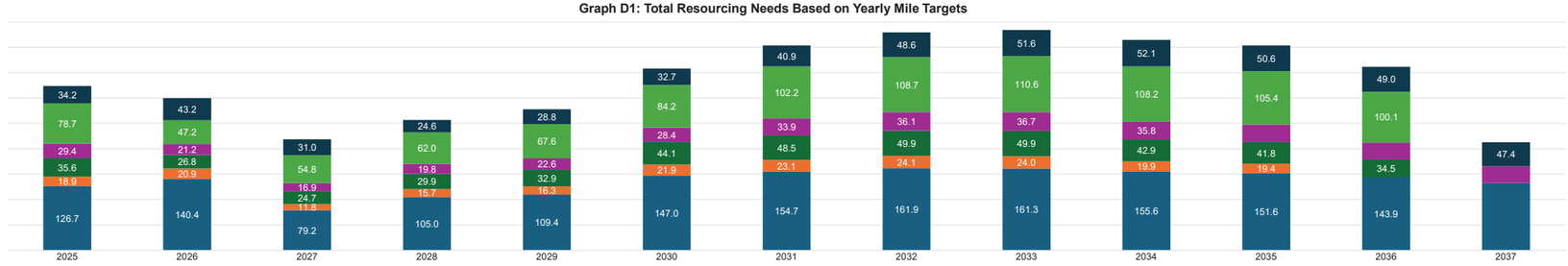
Workpaper 007
Pacific Gas and Electric Company
Electrical Undergrounding Program
Undergrounding Resource Model
Program Wide View

Dashboard

Table C1: Mile Target - Input

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	Total
Construction - Target Miles	247	285	214	307	417	307	250	300	350	450	550	600	625	625	625	625	6777

Graph D1: Total Resourcing Needs Based on Yearly Mile Targets

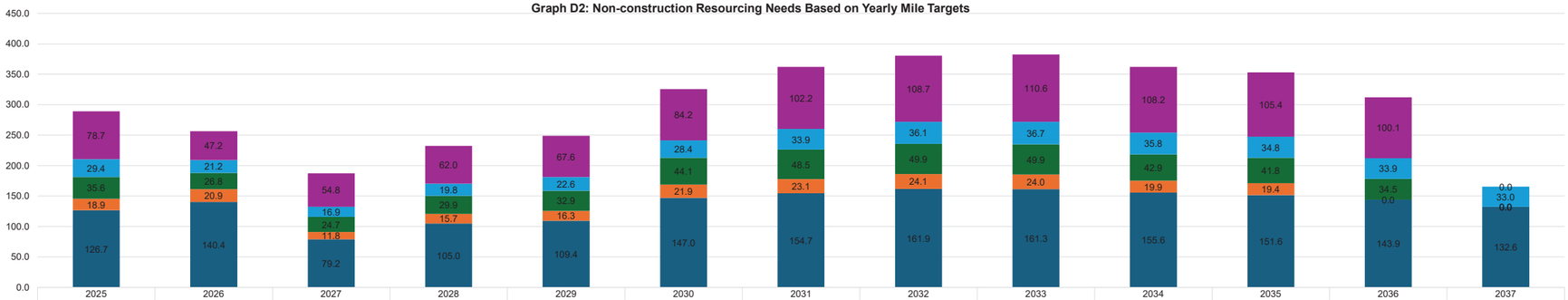


	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Construction Mgmt	34.2	43.2	31.0	24.6	28.8	32.7	40.9	48.6	51.6	52.1	50.6	49.0	47.4
Permitting and Environmental	78.7	47.2	54.8	62.0	67.6	84.2	102.2	108.7	110.6	108.2	105.4	100.1	0.0
Customer Outreach	29.4	21.2	16.9	19.8	22.6	28.4	33.9	36.1	36.7	35.8	34.8	33.9	33.0
Estimating	35.6	26.8	24.7	29.9	32.9	44.1	48.5	49.9	49.9	42.9	41.8	34.5	0.0
Scoping	18.9	20.9	11.8	15.7	16.3	21.9	23.1	24.1	24.0	19.9	19.4	0.0	0.0
Management	126.7	140.4	79.2	105.0	109.4	147.0	154.7	161.9	161.3	155.6	151.6	143.9	132.6

Table C2: Dependencies Mile Target - Based on Workstream Progression

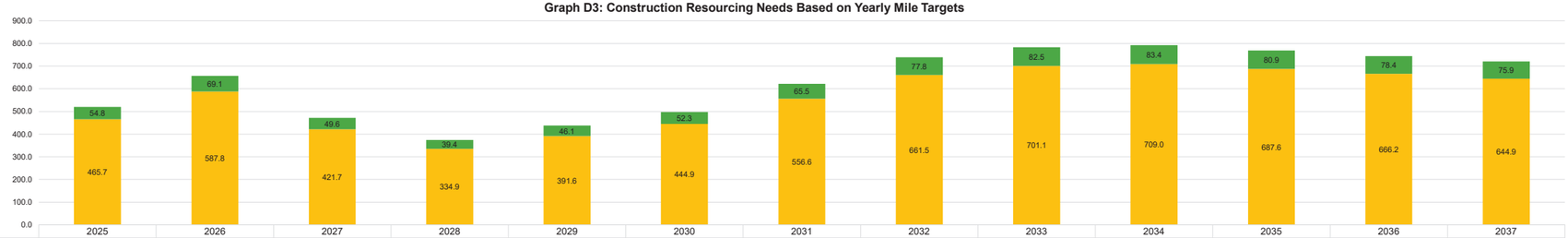
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	
Scoping - Target Miles	247	367	464	448	507	292	396	422	580	625	670	684	580	580	0	0	6862
Estimating - Target Miles	247	322	320	401	308	291	359	405	555	625	658	675	595	595	504	0	6860
Permitting - Target Miles	247	306	319	400	245	291	336	375	478	594	647	675	677	677	660	0	6927

Graph D2: Non-construction Resourcing Needs Based on Yearly Mile Targets



	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Permitting and Environmental	78.7	47.2	54.8	62.0	67.6	84.2	102.2	108.7	110.6	108.2	105.4	100.1	0.0
Customer Outreach	29.4	21.2	16.9	19.8	22.6	28.4	33.9	36.1	36.7	35.8	34.8	33.9	33.0
Estimating	35.6	26.8	24.7	29.9	32.9	44.1	48.5	49.9	49.9	42.9	41.8	34.5	0.0
Scoping	18.9	20.9	11.8	15.7	16.3	21.9	23.1	24.1	24.0	19.9	19.4	0.0	0.0
Management	126.7	140.4	79.2	105.0	109.4	147.0	154.7	161.9	161.3	155.6	151.6	143.9	132.6

Graph D3: Construction Resourcing Needs Based on Yearly Mile Targets



	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Electrical Crew	54.8	69.1	49.6	39.4	46.1	52.3	65.5	77.8	82.5	83.4	80.9	78.4	75.9
Civil Crew	465.7	587.8	421.7	334.9	391.6	444.9	556.6	661.5	701.1	709.0	687.6	666.2	644.9

Table C3: Resource Needs Based on Mile Targets

Resourcing (FTEs)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	MAX
Project Management	**117.9**	**108.1**	**134.0**	**126.7**	**140.4**	**79.2**	**105.0**	**109.4**	**147.0**	**154.7**	**161.9**	**161.3**	**155.6**	**151.6**	**143.9**	**132.6**	**161.9**
Associate Project Manager	50.0	45.8	56.8	53.8	59.6	33.6	44.6	46.4	62.4	65.6	68.7	68.4	66.0	64.3	61.1	56.3	68.7
Journey Project Manager	30.8	28.2	35.0	33.1	36.7	20.7	27.4	28.6	38.4	40.4	42.3	42.1	40.6	39.6	37.6	34.6	42.3
Project Controls Analyst	37.1	34.0	42.2	39.9	44.2	24.9	33.1	34.4	46.3	48.7	51.0	50.8	49.0	47.7	45.3	41.7	51.0
Scoping	**17.6**	**16.1**	**20.0**	**18.9**	**20.9**	**11.8**	**15.7**	**16.3**	**21.9**	**23.1**	**24.1**	**24.0**	**19.9**	**19.4**	**0.0**	**0.0**	**24.1**
Scoping Lead - Project Manager	0.4	0.4	0.5	0.5	0.5	0.3	0.4	0.4	0.5	0.6	0.6	0.6	0.5	0.5	0.0	0.0	0.6
Grid Design Team	13.9	12.8	15.8	15.0	16.6	9.3	12.4	12.9	17.3	18.3	19.1	19.0	15.7	15.3	0.0	0.0	19.1
Construction Manager	2.0	1.8	2.2	2.1	2.3	1.3	1.7	1.8	2.4	2.6	2.7	2.7	2.2	2.2	0.0	0.0	2.7
ADE / Estimating Support	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2
SME Reviews	0.4	0.4	0.5	0.5	0.5	0.3	0.4	0.4	0.5	0.6	0.6	0.6	0.5	0.5	0.0	0.0	0.6
Administrative	0.7	0.6	0.7	0.7	0.8	0.4	0.6	0.6	0.8	0.9	0.9	0.9	0.7	0.7	0.0	0.0	0.9
Estimating	**37.0**	**29.8**	**29.0**	**35.6**	**26.8**	**24.7**	**29.9**	**32.9**	**44.1**	**48.5**	**49.9**	**49.9**	**42.9**	**41.8**	**34.5**	**0.0**	**49.9**
Estimator	23.5	18.9	18.4	22.6	17.0	15.7	19.0	21.0	28.1	30.9	31.7	31.8	27.3	26.6	21.9	0.0	31.8
ADE	12.8	10.3	10.0	12.3	9.3	8.6	10.3	11.4	15.3	16.8	17.3	17.3	14.9	14.5	11.9	0.0	17.3
Civil Engineer	0.6	0.5	0.5	0.6	0.5	0.4	0.5	0.6	0.8	0.8	0.9	0.9	0.7	0.7	0.6	0.0	0.9
Customer Outreach	**20.9**	**15.7**	**22.0**	**29.4**	**21.2**	**16.9**	**19.8**	**22.6**	**28.4**	**33.9**	**36.1**	**36.7**	**35.8**	**34.8**	**33.9**	**33.0**	**36.7**
Outreach Representative	20.9	15.7	22.0	29.4	21.2	16.9	19.8	22.6	28.4	33.9	36.1	36.7	35.8	34.8	33.9	33.0	36.7
Encroachment (EPCW)	**81.9**	**62.6**	**64.0**	**78.7**	**47.2**	**54.8**	**62.0**	**67.6**	**84.2**	**102.2**	**108.7**	**110.6**	**108.2**	**105.4**	**100.1**	**0.0**	**110.6**
Permit Facilitator	25.2	19.2	19.7	24.2	14.5	16.8	19.0	20.8	25.9	31.4	33.4	34.0	33.2	32.4	30.7	0.0	34.0
Traffic Engineer	38.5	29.4	30.1	36.9	22.1	25.7	29.1	31.7	39.5	48.0	51.0	51.9	50.8	49.5	47.0	0.0	51.9
Agency Liaison	18.3	14.0	14.3	17.6	10.6	12.3	13.9	15.1	18.8	22.9	24.3	24.8	24.2	23.6	22.4	0.0	24.8
Land	**352.9**	**269.6**	**275.8**	**338.8**	**203.2**	**236.2**	**266.8**	**291.1**	**362.7**	**440.2**	**468.1**	**476.4**	**465.9**	**453.9**	**430.9**	**0.0**	**476.4**
Land Surveyor	31.9	24.4	24.9	30.6	18.4	21.3	24.1	26.3	32.8	39.8	42.3	43.0	42.1	41.0	38.9	0.0	43.0
Field Surveyor	31.9	24.4	24.9	30.6	18.4	21.3	24.1	26.3	32.8	39.8	42.3	43.0	42.1	41.0	38.9	0.0	43.0
Utility Locator	31.9	24.4	24.9	30.6	18.4	21.3	24.1	26.3	32.8	39.8	42.3	43.0	42.1	41.0	38.9	0.0	43.0
LiDAR Surveyor	31.9	24.4	24.9	30.6	18.4	21.3	24.1	26.3	32.8	39.8	42.3	43.0	42.1	41.0	38.9	0.0	43.0
Boundary surveyor	31.9	24.4	24.9	30.6	18.4	21.3	24.1	26.3	32.8	39.8	42.3	43.0	42.1	41.0	38.9	0.0	43.0
Caltrans Permit Specialist	31.9	24.4	24.9	30.6	18.4	21.3	24.1	26.3	32.8	39.8	42.3	43.0	42.1	41.0	38.9	0.0	43.0
Caltrans Project Manager	16.0	12.2	12.5	15.4	9.2	10.7	12.1	13.2	16.5	20.0	21.2	21.6	21.1	20.6	19.6	0.0	21.6
Land Agent	31.9	24.4	24.9	30.6	18.4	21.3	24.1	26.3	32.8	39.8	42.3	43.0	42.1	41.0	38.9	0.0	43.0
ROW Agent	49.6	37.9	38.8	47.7	28.6	33.2	37.5	41.0	51.0	61.9	65.8	67.0	65.5	63.9	60.6	0.0	67.0
Land Project Manager	32.0	24.5	25.0	30.7	18.4	21.4	24.2	26.4	32.9	39.9	42.5	43.2	42.3	41.2	39.1	0.0	43.2
Land/Acquisition Project Coordinator	32.0	24.5	25.0	30.7	18.4	21.4	24.2	26.4	32.9	39.9	42.5	43.2	42.3	41.2	39.1	0.0	43.2
Environmental	**236.2**	**180.5**	**184.6**	**226.8**	**136.0**	**158.1**	**178.6**	**194.9**	**242.8**	**294.7**	**313.3**	**318.9**	**311.9**	**303.9**	**288.4**	**0.0**	**318.9**
Land Planning Analyst	7.9	6.0	6.1	7.5	4.5	5.3	5.9	6.5	8.1	9.8	10.4	10.6	10.4	10.1	9.6	0.0	10.6
Land Planner	19.9	15.2	15.5	19.1	11.4	13.3	15.0	16.4	20.4	24.8	26.3	26.8	26.2	25.5	24.2	0.0	26.8
Biologist	19.7	15.1	15.4	18.9	11.3	13.2	14.9	16.3	20.3	24.6	26.1	26.6	26.0	25.4	24.1	0.0	26.6
Cultural Resource Specialist	19.4	14.8	15.2	18.6	11.2	13.0	14.7	16.0	20.0	24.2	25.8	26.2	25.6	25.0	23.7	0.0	26.2
Environmental Field Specialist (EFS)	27.2	20.7	21.2	26.1	15.6	18.2	20.5	22.4	27.9	33.9	36.0	36.7	35.9	34.9	33.2	0.0	36.7
Water Quality Specialist	10.5	8.0	8.2	10.1	6.1	7.1	8.0	8.7	10.8	13.1	14.0	14.2	13.9	13.6	12.9	0.0	14.2
GIS Specialist	46.7	35.7	36.5	44.9	26.9	31.3	35.3	38.6	48.0	58.3	62.0	63.1	61.7	60.1	57.1	0.0	63.1
Environmental Inspector (EI)	36.4	27.8	28.4	34.9	20.9	24.3	27.5	30.0	37.4	45.4	48.3	49.1	48.0	46.8	44.4	0.0	49.1
Compliance Specialist	31.4	24.0	24.6	30.2	18.1	21.0	23.7	25.9	32.3	39.2	41.7	42.4	41.5	40.4	38.4	0.0	42.4
Sample Coordinator	17.2	13.1	13.4	16.5	9.9	11.5	13.0	14.2	17.6	21.4	22.8	23.2	22.7	22.1	21.0	0.0	23.2
Construction Management	**31.1**	**35.4**	**25.4**	**34.2**	**43.2**	**31.0**	**24.6**	**28.8**	**32.7**	**40.9**	**48.6**	**51.6**	**52.1**	**50.6**	**49.0**	**47.4**	**52.1**
Construction Manager	31.1	35.4	25.4	34.2	43.2	31.0	24.6	28.8	32.7	40.9	48.6	51.6	52.1	50.6	49.0	47.4	52.1
Civil Crew	**422.3**	**481.5**	**346.0**	**465.7**	**587.8**	**421.7**	**334.9**	**391.6**	**444.9**	**556.6**	**661.5**	**701.1**	**709.0**	**687.6**	**666.2**	**644.9**	**709.0**
Civil - Foreman	62.1	70.8	50.9	68.5	86.4	62.0	49.2	57.6	65.4	81.9	97.3	103.1	104.3	101.1	98.0	94.8	104.3
Civil - Backhoe Operator	62.1	70.8	50.9	68.5	86.4	62.0	49.2	57.6	65.4	81.9	97.3	103.1	104.3	101.1	98.0	94.8	104.3
Civil - Construction Operator	111.8	127.4	91.6	123.3	155.6	111.6	88.6	103.7	117.8	147.3	175.1	185.6	187.7	182.0	176.4	170.7	187.7
Civil - Utility Worker	186.3	212.4	152.7	205.5	259.3	186.1	147.7	172.8	196.3	245.6	291.8	309.3	312.8	303.4	293.9	284.5	312.8
Electrical Crew	**49.7**	**56.6**	**40.7**	**54.8**	**69.1**	**49.6**	**39.4**	**46.1**	**52.3**	**65.5**	**77.8**	**82.5**	**83.4**	**80.9**	**78.4**	**75.9**	**83.4**
Electrical - Foreman	12.4	14.2	10.2	13.7	17.3	12.4	9.8	11.5	13.1	16.4	19.5	20.6	20.9	20.2	19.6	19.0	20.9
Electrical - Journeyman Lineman	24.8	28.3	20.4	27.4	34.6	24.8	19.7	23.0	26.2	32.7	38.9	41.2	41.7	40.4	39.2	37.9	41.7
Electrical - Groundman/Apprentices	12.4	14.2	10.2	13.7	17.3	12.4	9.8	11.5	13.1	16.4	19.5	20.6	20.9	20.2	19.6	19.0	20.9
Post Construction	**6.0**	**6.8**	**4.9**	**7.4**	**8.4**	**6.0**	**4.8**	**5.6**	**6.3**	**7.9**	**9.4**	**10.0**	**10.1**	**9.8**	**9.5**	**9.2**	**10.1**
Clerical	4.0	4.6	3.3	5.0	5.6	4.0	3.2	3.7	4.2	5.3	6.3	6.7	6.8	6.6	6.3	6.1	6.8

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP008

CORE CAPABILITY 1: SUPPORTING FORMULAS

Workpaper 008
Pacific Gas and Electric Company
Electrical Undergrounding Program
Core Capability 1: Supporting Formulas

			Wildfire Risk*										
Scenario	Circuit	Circuit Segment	Pre-Mitigated Wildfire Risk at Project-Level	Wildfire Mitigation Effectiveness	Underground Proportion	Wildfire Risk Reduction at Project-Level	Wildfire Risk Reduction at Portfolio-Level	Separate Residual Wildfire Risk at Project-Level	Collective Residual Wildfire Risk at Project-Level	Separate Residual Wildfire Risk at Portfolio-Level	Collective Residual Wildfire Risk at Portfolio-Level	Residual Wildfire Risk Ablation at Project-Level	Residual Wildfire Risk Ablation at Portfolio-Level
(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)
Low Risk	ALDER GLEN	ALDER GLEN 1	$1.00	95%	80%	$0.76	$6.38	$0.24	$0.24	$15.84	$10.22	$1.00	$10.06
Not in Portfolio	ALDER GLEN	ALDER GLEN 2	$3.00	99%	0%	$0.00	$6.38	$3.00	$3.00	$16.60	$10.22	N/A	$10.22
Not in Portfolio	ALDER GLEN	ALDER GLEN 3	$3.20	95%	0%	$0.00	$6.38	$3.20	$3.20	$16.60	$10.22	N/A	$10.22
Medium Risk	BIRCH RIDGE	BIRCH RIDGE 1	$2.00	99%	75%	$1.43	$6.38	$0.58	$0.58	$15.18	$10.22	$2.00	$11.64
Medium Risk	BIRCH RIDGE	BIRCH RIDGE 2	$1.50	99%	60%	$0.86	$6.38	$0.65	$0.65	$15.75	$10.22	$1.50	$11.07
Not in Portfolio	BIRCH RIDGE	BIRCH RIDGE 3	$1.00	99%	0%	$0.00	$6.38	$1.00	$1.00	$16.60	$10.22	N/A	$10.22
Not in Portfolio	BIRCH RIDGE	BIRCH RIDGE 4	$0.90	99%	0%	$0.00	$6.38	$0.90	$0.90	$16.60	$10.22	N/A	$10.22
Top Risk	CEDAR FALLS	CEDAR FALLS 1	$9.00	95%	88%	$8.34	$6.38	$0.66	$0.66	$13.26	$10.22	$4.00	$13.56

*Projects will have the outputs from Formula 1 evaluated using a Collective or Separate Analysis. This is due to the method PG&E uses to estimate Overall Utility Risk, which subsumes the downstream impacts from a weather event and resulting customer outages in the risk calculation for each Circuit Segment. Because these downstream impacts are assumed within each Project's risk calculation, Collective and Ablation studies can be performed with a straightforward additive/subtraction approach, which effectively makes all risks strictly additive.

				EPSS Risk*									
Pre-Mitigated EPSS Risk at Project-Level	EPSS Mitigation Effectiveness	Underground Proportion	EPSS Risk Reduction at Project-Level	EPSS Risk Reduction at Portfolio-Level	Separate Residual EPSS Risk at Project-Level	Collective Residual EPSS Risk at Project-Level	Separate Residual EPSS Risk at Portfolio-Level	Collective Residual EPSS Risk at Portfolio-Level	Residual EPSS Risk Ablation at Project-Level	Residual EPSS Risk Ablation at Portfolio-Level
(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)
$0.04	100%	80%	$0.03	$18.72	$0.01	$0.01	$26.42	$7.73	$0.04	$7.76
$0.06	100%	0%	$0.00	$18.72	$0.06	$0.06	$26.45	$7.73	N/A	$7.73
$0.06	100%	0%	$0.00	$18.72	$0.06	$0.06	$26.45	$7.73	N/A	$7.73
$3.78	100%	75%	$2.84	$18.72	$0.95	$0.95	$23.62	$7.73	$3.78	$10.57
$2.84	100%	60%	$1.70	$18.72	$1.13	$1.13	$24.75	$7.73	$2.84	$9.43
$1.89	100%	0%	$0.00	$18.72	$1.89	$1.89	$26.45	$7.73	N/A	$7.73
$1.70	100%	0%	$0.00	$18.72	$1.70	$1.70	$26.45	$7.73	N/A	$7.73
$16.08	100%	88%	$14.15	$18.72	$1.93	$1.93	$12.30	$7.73	$16.08	$21.88

				PSPS Risk*								
Pre-Mitigated PSPS Risk at Project-Level	PSPS Mitigation Effectiveness	Underground Proportion	PSPS Risk Reduction at Project-Level	PSPS Risk Reduction at Portfolio-Level	Separate Residual PSPS Risk at Project-Level	Collective Residual PSPS Risk at Project-Level	Separate Residual PSPS Risk at Portfolio-Level	Collective Residual PSPS Risk at Portfolio-Level	Residual PSPS Risk Ablation at Project-Level	Residual PSPS Risk Ablation at Portfolio-Level
(AC)	(AD)	(AE)	(AF)	(AG)	(AH)	(AI)	(AJ)	(AK)	(AL)	(AM)
$0.07	100%	80%	$0.06	$9.17	$0.01	$0.01	$13.87	$4.76	$0.07	$4.82
$0.21	100%	0%	$0.00	$9.17	$0.21	$0.21	$13.93	$4.76	N/A	$4.76
$0.67	100%	0%	$0.00	$9.17	$0.67	$0.67	$13.93	$4.76	N/A	$4.76
$2.82	100%	75%	$2.12	$9.17	$0.71	$0.71	$11.82	$4.76	$2.82	$6.88
$2.12	100%	60%	$1.27	$9.17	$0.85	$0.85	$12.68	$4.76	$2.12	$6.03
$1.06	100%	0%	$0.00	$9.17	$1.06	$1.06	$13.93	$4.76	N/A	$4.76
$0.48	100%	0%	$0.00	$9.17	$0.48	$0.48	$13.93	$4.76	N/A	$4.76
$6.51	100%	88%	$5.73	$9.17	$0.78	$0.78	$8.20	$4.76	$6.51	$10.49

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP009

CORE CAPABILITY 2: SUPPORTING FORMULAS

Workpaper 009
Pacific Gas and Electric Company
Electrical Undergrounding Program
Core Capability 2: Supporting Formulas

Key	KDMM/Core Capability Data Point	Formula for System Aggregation	Formula for Portfolio-Level Aggregation
A	Overall Utility Risk	= Sum of all Overall Utility Risk on Entire System	= Sum of Overall Utility Risk for all Circuits with a confirmed EUP Circuit Segment
B	Ignition Risk	= Sum of all Wildfire Risk on Entire System	= Sum of all Wildfire Risk for all Circuits with a confirmed EUP Circuit Segment
C	Ignition Consequence	= Sum of all Wildfire Risk on Entire System / Sum of all Wildfire Likelihood on Entire System	= Sum of all Wildfire Risk for all Circuits with a confirmed EUP Circuit Segment/ Sum of all Wildfire Likelihood for all Circuits with a confirmed EUP Circuit Segment
D	Ignition Likelihood	= Sum of all Wildfire Likelihood on Entire System	= Sum of all Wildfire Likelihood for all Circuits with a confirmed EUP Circuit Segment
E	Outage Program Risk	= Sum of EPSS Risk on Entire System + Sum of PSPS Risk on Entire System	= Sum of all EPSS Risk for all Circuits with a confirmed EUP Circuit Segment + Sum of all PSPS Risk for all Circuits with a confirmed EUP Circuit Segment
E.1	EPSS Risk	= Sum of EPSS Risk on Entire System	= Sum of all EPSS Risk for all Circuits with a confirmed EUP Circuit Segment
E.2	PSPS Risk	= Sum of PSPS Risk on Entire System	= Sum of all PSPS Risk for all Circuits with a confirmed EUP Circuit Segment
F	Outage Program Consequence	= Sum of all Outage Program Risk on Entire System / Sum of all Outage Program Likelihood on Entire System	= Sum of all Outage Program Risk for all Circuits with a confirmed EUP Circuit Segment / Sum of all Outage Program Likelihood for all Circuits with a confirmed EUP Circuit Segment
F.1	EPSS Consequence	= Sum of all EPSS Risk on Entire System/ Sum of all EPSS Likelihood on Entire System	= Sum of all EPSS Risk for all Circuits with a confirmed EUP Circuit Segment / Sum of all EPSS Likelihood for all Circuits with a confirmed EUP Circuit Segment
F.2	PSPS Consequence	= Sum of all PSPS Risk on Entire System/ Sum of all PSPS Likelihood on Entire System	= Sum of all PSPS Risk for all Circuits with a confirmed EUP Circuit Segment / Sum of all PSPS Likelihood for all Circuits with a confirmed EUP Circuit Segment
G	Outage Program Likelihood	= Sum of all EPSS Likelihood on Entire System + Sum of all PSPS Likelihood on Entire System	= Sum of all EPSS Likelihood for all Circuits with a confirmed EUP Circuit Segment + Sum of all PSPS Likelihood for all Circuits with a confirmed EUP Circuit Segment
G.1	EPSS Likelihood	= Sum of all EPSS Likelihood on Entire System	= Sum of all EPSS Likelihood for all Circuits with a confirmed EUP Circuit Segment
G.2	PSPS Likelihood	= Sum of all PSPS Likelihood on Entire System	= Sum of all PSPS Likelihood for all Circuits with a confirmed EUP Circuit Segment

Key	KDMM/Core Capability Data Point	Formula for System Aggregation[a]	Formula for Portfolio-Level Aggregation[a]
A	Overall Utility Risk	$6,402	$237
B	Ignition Risk	$1,450	$75
C	Ignition Consequence	$3.01	$3.44
D	Ignition Likelihood	$482	$22
E	Outage Program Risk	$4,952	$161
E.1	EPSS Risk	$3,541	$105
E.2	PSPS Risk	$1,411	$56
F	Outage Program Consequence	$0.0011	$0.0013
F.1	EPSS Consequence	$0.0021	$0.0033
F.2	PSPS Consequence	$0.0005	$0.0006
G	Outage Program Likelihood	4,489,878	124,222
G.1	EPSS Likelihood	1,666,116	31,808
G.2	PSPS Likelihood	2,823,762	92,414

[a] The figures in this table are examples only and do not represent actual data

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP010

CORE CAPABILITY 3: SUPPORTING FORMULAS

Workpaper 010
Pacific Gas and Electric Company
Electrical Undergrounding Program
Core Capability 3: Supporting Formulas

Step 1 Estimate wildfire risk before EPSS/PSPS. WDRM supplies unitless risk points; unmitigated bowtie risk ($) is allocated to each circuit segment by its share of those points, enabling monetized consequence to be calculated.
Step 2 PROGRAMS ACTIVE: Apply the modeled wildfire reductions (80% risk reduction and 46.2% likelihood reduction), back-calculate consequence as risk ÷ likelihood, then add PSPS and EPSS outage risks to show the net risk trade-off.

		Wildfire											PSPS						EPSS						Outage Risk						Overall Utility Risk	
Portfolio Project #	Circuit Segment	Wildfire Likelihood - before EPSS/PSPS (AA)	Wildfire Likelihood - with EPSS/PSPS active (AS)	Combined Wildfire Likelihood - with EPSS/PSPS active (AC)	Unitless Wildfire Consequence (BB)	Implied Wildfire Consequence - before EPSS/PSPS (BBA)	Implied Wildfire Consequence - with EPSS/PSPS active (BS)	Combined Wildfire Consequence - with EPSS/PSPS active (BC)	WDRM wildfire risk points (K)	Wildfire Risk - before EPSS/PSPS (BWF)	Wildfire Risk - with EPSS/PSPS active (SWF)	Combined Wildfire Risk - with EPSS/PSPS active (XC)	PSPS Likelihood (O)	Combined PSPS Likelihood (P)	PSPS Consequence (Q)	Combined PSPS Consequence (R)	PSPS Risk (PR)	Combined PSPS Risk (T)	EPSS Likelihood (U)	Combined EPSS Likelihood (V)	EPSS Consequence (W)	Combined EPSS Consequence (X)	EPSS Rsk (ER)	Combined EPSS Risk (Z)	Outage Likelihood (AA)	Combined Outage Likelihood (AB)	Blended Outage Consequence (AC)	Combined Outage Consequence (AD)	Outage Risk (AE)	Combined Outage Risk (AF)	Overall Utility Risk (AG)	Combined Overall Utility Risk (AH)
1	ALDER GLEN 1	0.04713	0.02535		116.40	$393	$147.40		5.49	$18.51	$3.74		48		$0.12		$5.94		43		$0.08		$3.59		90.82		$0.10		$9.53		$13.26	
2	BIRCH RIDGE 2	0.08317	0.04475		176.57	$596	$223.59		14.69	$49.55	$10.00		69		$0.02		$1.52		23		$0.69		$15.90		92.01		$0.19		$17.42		$27.42	
3	CEDAR FALLS 3	0.06269	0.03373		168.68	$569	$213.60		10.57	$35.68	$7.20		47		$0.25		$11.69		43		$0.25		$10.67		89.93		$0.25		$22.37		$29.57	
4	DOGWOOD PASS 4	0.09554	0.05140		297.15	$1,003	$376.27		28.39	$95.79	$19.34		52		$0.19		$9.61		34		$0.10		$3.23		85.21		$0.15		$12.84		$32.18	
5	ELDER CREEK 5	0.00846	0.00455		15.27	$52	$19.33		0.13	$0.44	$0.09		27		$0.04		$1.03		22		$0.77		$17.29		49.24		$0.37		$18.32		$18.41	
6	FOX HOLLOW 6	0.09520	0.05122		339.35	$1,145	$429.72		32.31	$109.00	$22.01		11		$0.05		$0.51		34		$0.52		$17.97		45.30		$0.41		$18.48		$40.49	
7	GRANITE PEAK 7	0.05487	0.02952		20.74	$70	$26.26		1.14	$3.84	$0.78		56		$0.31		$17.50		18		$0.62		$11.13		74.21		$0.39		$28.64		$29.41	
8	HAWTHORN FLAT 8	0.01176	0.00633		87.24	$294	$110.48		1.03	$3.46	$0.70		81		$0.09		$7.18		22		$0.48		$10.79		102.97		$0.17		$17.97		$18.67	
9	INDIGO RIDGE 9	0.06234	0.03354		44.78	$151	$56.70		2.79	$9.42	$1.90		82		$0.24		$19.40		42		$0.22		$9.12		123.49		$0.23		$28.52		$30.42	
10	JUNIPER POINT 1	0.03403	0.01831		27.47	$93	$34.78		0.93	$3.15	$0.64		63		$0.24		$15.27		20		$1.00		$19.83		82.62		$0.42		$35.10		$35.73	
11	KELSEY BASIN 2	0.02132	0.01147		242.25	$817	$306.76		5.17	$17.43	$3.52		96		$0.12		$11.37		45		$0.17		$7.79		140.36		$0.14		$19.16		$22.68	
12	LARCH MEADOW 3	0.09385	0.05049		440.02	$1,485	$557.20		41.30	$139.34	$28.13		84		$0.15		$12.44		38		$0.11		$3.96		121.21		$0.14		$16.40		$44.54	
13	MAPLE RIDGE 4	0.05144	0.02767	0.75042	239.28	$807	$303.00	$307.90	12.31	$41.53	$8.38	$231.05	24	1331.61	$0.05	$0.18	$1.13	$235.13	14	850.73	$0.47	$0.31	$6.79	$267.50	38.61	2182.35	$0.21	$0.23	$7.92	$502.63	$16.31	$733.68
14	NOBLE SUMMIT 5	0.06452	0.03471		102.76	$347	$130.12		6.63	$22.37	$4.52		60		$0.24		$14.14		73		$0.12		$8.81		133.10		$0.17		$22.94		$27.46	
15	OAK FLATS 6	0.02781	0.01496		361.57	$1,220	$457.85		10.05	$33.93	$6.85		27		$0.09		$2.31		31		$0.19		$5.95		57.96		$0.14		$8.26		$15.11	
16	PINE CANYON 7	0.02742	0.01475		350.63	$1,183	$444.00		9.61	$32.44	$6.55		92		$0.25		$23.38		47		$0.19		$9.07		138.86		$0.23		$32.45		$39.00	
17	QUAIL RIDGE 8	0.08602	0.04628		478.66	$1,615	$606.12		41.17	$138.92	$28.05		47		$0.33		$15.62		11		$1.38		$15.60		58.42		$0.53		$31.23		$59.28	
18	RAVEN ROCK 9	0.04102	0.02207		63.97	$216	$81.01		2.62	$8.86	$1.79		52		$0.12		$5.96		37		$0.31		$11.70		89.06		$0.20		$17.66		$19.45	
19	SYCAMORE HILL 1	0.04772	0.02567		257.59	$869	$326.19		12.29	$41.48	$8.37		19		$0.13		$2.50		10		$1.91		$19.57		29.49		$0.75		$22.07		$30.45	
20	TAMARACK RIDGE 2	0.09100	0.04896		47.86	$161	$60.61		4.36	$14.70	$2.97		15		$0.21		$3.17		10		$0.87		$8.84		25.15		$0.48		$12.00		$14.97	
21	UPLAND GROVE 3	0.00981	0.00528		333.93	$1,127	$422.86		3.27	$11.05	$2.23		38		$0.20		$7.65		44		$0.11		$4.83		82.31		$0.15		$12.48		$14.71	
22	VALLEY CREST 4	0.01614	0.00868		94.38	$318	$119.51		1.52	$5.14	$1.04		81		$0.05		$4.15		28		$0.49		$13.84		109.31		$0.16		$18.00		$19.04	
23	WILLOW BASIN 5	0.06777	0.03646		321.62	$1,085	$407.27		21.80	$73.54	$14.85		57		$0.18		$9.99		77		$0.13		$9.95		133.51		$0.15		$19.94		$34.79	
24	YARROW POINT 6	0.09579	0.05153		310.49	$1,048	$393.18		29.74	$100.35	$20.26		40		$0.32		$12.74		48		$0.11		$5.25		88.21		$0.20		$17.99		$38.25	
25	ZION RIDGE 7	0.09805	0.05275		406.41	$1,371	$514.64		39.85	$134.45	$27.15		65		$0.29		$18.90		36		$0.44		$16.02		101.01		$0.35		$34.93		$62.08	

Columns D:N represent the wildfire risk framework; O:Z are the PSPS/EPSS input framework; AA:AF combines outage effects, and AG:AH adds outage risk to wildfire risk.

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP011

CORE CAPABILITY 4: SUPPORTING FORMULAS

Workpaper 011
Pacific Gas and Electric Company
Electrical Undergrounding Program
Core Capability 4: Supporting Formulas
Directory

Sheet	Section of Core Capability 4 Section Addressed
4.1 - Risk Evaluation	The Large Electrical Corporation must detail its method for evaluating Ignition Risk and Outage Program Risk at future dates and the accumulation of Ignition Risk and Outage Program Risk over time. The Large Electrical Corporation must report instantaneous and cumulative risk and reliability scores at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 35, 40, 45, 50, and 55 years into the future for all Confirmed Projects. Model Year 0 is defined to begin on the date the Large Electrical Corporation designates as the start date of the EUP (as set forth in the Target/Timeline Table), and subsequent times are measured at a fixed timeline from the same date.
4.2 - Project Timelines	The Large Electrical Corporation must describe how it uses estimated project timelines to model the reduction of risk and increase in reliability over time. For Undergrounding Projects, this timeline must include the estimated time for the project to acquire new rights-of-way, easements, permits, and CEQA review, if any. For non-undergrounding work, this timeline must use an estimate specific to the type of work using assumptions about the start time and construction time that are reasonable and consistent with the work being performed and assuming that the work will begin and be completed as soon as practicable. The Large Electrical Corporation must detail how these projections reflect its modeling of climate change as described in Core Capability 6.
4.3 - Discount Rates	If any discount rates are employed in the calculation of any KDMM, the Large Electrical Corporation must list them and explain their origin. If the discount rates change over time, the Large Electrical Corporation must explain how they change and why these changes are warranted. Changes must be in line with the CPUC Risk-based Decision-Making Framework Proceeding (Rulemaking 20-07-013 or its successor proceeding).

Workpaper 011
Pacific Gas and Electric Company
Electrical Undergrounding Program
Core Capability 4: Supporting Formulas

4.1 - Risk Evaluation

Overview

Core Capability 4 of the EUP Guidelines requires that:

The Large Electrical Corporation must detail its method for evaluating Ignition Risk and Outage Program Risk at future dates and the accumulation of Ignition Risk and Outage Program Risk over time. The Large Electrical Corporation must report instantaneous and cumulative risk and reliability scores at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 35, 40, 45, 50, and 55 years into the future for all Confirmed Projects. Model Year 0 is defined to begin on the date the Large Electrical Corporation designates as the start date of the EUP (as set forth in the Target/Timeline Table), and subsequent times are measured at a fixed timeline from the same date.

The supporting formulas at right detail the evaluations of instantaneous and cumulative values of future risks from Model Year 0 (Year 2028) for both Ignition Risk and Outage Program Risk; each of which follows a similar process of evaluation.

The evaluation begins by collecting Year 2028 / Model Year 0 valuations of the Pre-Mitigation and Residual (i.e., Post-Mitigation) Ignition Risk and Outage Program Risk of the Circuit Segment corresponding to the Confirmed Project and its mitigation activities. Depending on the Estimated Used and Useful Year, EY, of the Confirmed Project, the Instantaneous risk for each Model Year is evaluated by multiplying either the Year 2028 / Model Year 0 Pre-Mitigation or Residual Risk by the Climate Factor for each Model Year. Specifically, the Pre-Mitigation risk values are used in the years up to EY, and Residual risk values are used in years beyond EY. The Cumulative risk is then evaluated for each Model Year by summing the Instantaneous risk values from Model Year 0 through the current Model Year.

Estimated Project Completion / Segment Used and Useful Year

Est. Completion / Used and Useful Year	EY

2028 Ignition Risk for Circuit Segment

Note: Residual Risks by Mitigation (IRP1 through IRP4) are not reported with Instantaneous and Cumulative Risk metrics.

Pre-Mitigation Risk (IRA0), A : 'ante'	IRA0
Residual Risk (IRP0), P : 'post'	IRP0 = IRP1 + IRP2 + IRP3 + IRP4
Residual Risk, Mitigation 1 (IRP1)	IRP1
Residual Risk, Mitigation 2 (IRP2)	IRP2
Residual Risk, Mitigation 3 (IRP3)	IRP3
Residual Risk, No Mitigation (IRP4)	IRP4

2028 Outage Program Risk for Circuit Segment

Note: Residual Risks by Mitigation (ORP1 through ORP4) are not reported with Instantaneous and Cumulative Risk metrics.

Pre-Mitigation Risk (ORA0), A : 'ante'	ORA0 = ERA0 + PRA0
Residual Risk (ORP0), P : 'post'	ORP0 = ERP0 + PRP0
Residual Risk, Mitigation 1 (ORP1)	ORP1 = ERP1 + PRP1
Residual Risk, Mitigation 2 (ORP2)	ORP2 = ERP2 + PRP2
Residual Risk, Mitigation 3 (ORP3)	ORP3 = ERP3 + PRP3
Residual Risk, No Mitigation (ORP4)	ORP4 = ERP4 + PRP4

2028 EPSS Risk for Circuit Segment

Note: Residual Risks by Mitigation (ERP1 through ERP4) are not reported with Instantaneous and Cumulative Risk metrics.

Pre-Mitigation Risk (ERA0), A : 'ante'	ERA0
Residual Risk (ERP0), P : 'post'	ERP0 = ERP1 + ERP2 + ERP3 + ERP4
Residual Risk, Mitigation 1 (ERP1)	ERP1
Residual Risk, Mitigation 2 (ERP2)	ERP2
Residual Risk, Mitigation 3 (ERP3)	ERP3
Residual Risk, No Mitigation (ERP4)	ERP4

2028 PSPS Risk for Circuit Segment

Note: Residual Risks by Mitigation (PRP1 through PRP4) are not reported with Instantaneous and Cumulative Risk metrics.

Pre-Mitigation Risk (PRA0), A : 'ante'	PRA0
Residual Risk (PRP0), P : 'post'	PRP0 = PRP1 + PRP2 + PRP3 + PRP4
Residual Risk, Mitigation 1 (PRP1)	PRP1
Residual Risk, Mitigation 2 (PRP2)	PRP2
Residual Risk, Mitigation 3 (PRP3)	PRP3
Residual Risk, No Mitigation (PRP4)	PRP4

Instantaneous and Cumulative Ignition Risk and Outage Program Risk by Model Year

Year (YRx)	Model Year (MYx)	Climate Factor Dividend (CDx)	2028-Normalized Climate Factor (Cx = CDx / CD0)	Instantaneous Ignition Risk Multiplicand (IRMx = if (YRx < EY) then (IRAx) else (IRPx))	Instantaneous Ignition Risk (IRIx = IRMx * Cx)	Cumulative Ignition Risk (IRCx = ∑IRIx; x: {0, …, MYx})	Instantaneous EPSS Risk Multiplicand (ERMx = if (YRx < EY) then (ERAx) else (ERPx))	Instantaneous EPSS Risk (ERIx = ERMx * Cx)	Cumulative EPSS Risk (ERUx = ∑ERIx; x: {0, …, MYx})	Instantaneous PSPS Risk Multiplicand (PRMx = if (YRx < EY) then (PRAx) else (PRPx))	Instantaneous PSPS Risk (PRIx = PRMx * Cx)	Cumulative PSPS Risk (PRUx = ∑PRIx; x: {0, …, MYx})	Instantaneous Outage Program Risk Multiplicand (ORMx = if (YRx < EY) then (ORAx) else (ORPx))	Instantaneous Outage Program Risk (ORIx = ORMx * Cx)	Cumulative Outage Program Risk (ORCx = ∑ORIx; x: {0, …, MYx})
YR0 = 2028	MY0 = 0	CD0	C0 = CD0 / CD0 = 1	IRM0 = if (YR0 < EY) then (IRA0) else (IRP0)	IRI0 = IRM0 * C0	IRC0 = ∑IRIx; x: {0, …, MY0}	ERM0 = if (YR0 < EY) then (ERA0) else (ERP0)	ERI0 = ERM0 * C0	ERU0 = ∑ERIx; x: {0, …, MY0}	PRM0 = if (YR0 < EY) then (PRA0) else (PRP0)	PRI0 = PRM0 * C0	PRU0 = ∑PRIx; x: {0, …, MY0}	ORM0 = if (YR0 < EY) then (ORA0) else (ORP0)	ORI0 = ORM0 * C0	ORC0 = ∑ORIx; x: {0, …, MY0}
YR1 = 2029	MY1 = 1	CD1	C1 = CD1 / CD0	IRM1 = if (YR1 < EY) then (IRA0) else (IRP0)	IRI1 = IRM1 * C1	IRC1 = ∑IRIx; x: {0, …, MY1}	ERM1 = if (YR1 < EY) then (ERA0) else (ERP0)	ERI1 = ERM1 * C1	ERU1 = ∑ERIx; x: {0, …, MY1}	PRM1 = if (YR1 < EY) then (PRA0) else (PRP0)	PRI1 = PRM1 * C1	PRU1 = ∑PRIx; x: {0, …, MY1}	ORM1 = if (YR1 < EY) then (ORA0) else (ORP0)	ORI1 = ORM1 * C1	ORC1 = ∑ORIx; x: {0, …, MY1}
YR2 = 2030	MY2 = 2	CD2	C2 = CD2 / CD0	IRM2 = if (YR2 < EY) then (IRA0) else (IRP0)	IRI2 = IRM2 * C2	IRC2 = ∑IRIx; x: {0, …, MY2}	ERM2 = if (YR2 < EY) then (ERA0) else (ERP0)	ERI2 = ERM2 * C2	ERU2 = ∑ERIx; x: {0, …, MY2}	PRM2 = if (YR2 < EY) then (PRA0) else (PRP0)	PRI2 = PRM2 * C2	PRU2 = ∑PRIx; x: {0, …, MY2}	ORM2 = if (YR2 < EY) then (ORA0) else (ORP0)	ORI2 = ORM2 * C2	ORC2 = ∑ORIx; x: {0, …, MY2}
YR3 = 2031	MY3 = 3	CD3	C3 = CD3 / CD0	IRM3 = if (YR3 < EY) then (IRA0) else (IRP0)	IRI3 = IRM3 * C3	IRC3 = ∑IRIx; x: {0, …, MY3}	ERM3 = if (YR3 < EY) then (ERA0) else (ERP0)	ERI3 = ERM3 * C3	ERU3 = ∑ERIx; x: {0, …, MY3}	PRM3 = if (YR3 < EY) then (PRA0) else (PRP0)	PRI3 = PRM3 * C3	PRU3 = ∑PRIx; x: {0, …, MY3}	ORM3 = if (YR3 < EY) then (ORA0) else (ORP0)	ORI3 = ORM3 * C3	ORC3 = ∑ORIx; x: {0, …, MY3}
YR4 = 2032	MY4 = 4	CD4	C4 = CD4 / CD0	IRM4 = if (YR4 < EY) then (IRA0) else (IRP0)	IRI4 = IRM4 * C4	IRC4 = ∑IRIx; x: {0, …, MY4}	ERM4 = if (YR4 < EY) then (ERA0) else (ERP0)	ERI4 = ERM4 * C4	ERU4 = ∑ERIx; x: {0, …, MY4}	PRM4 = if (YR4 < EY) then (PRA0) else (PRP0)	PRI4 = PRM4 * C4	PRU4 = ∑PRIx; x: {0, …, MY4}	ORM4 = if (YR4 < EY) then (ORA0) else (ORP0)	ORI4 = ORM4 * C4	ORC4 = ∑ORIx; x: {0, …, MY4}
YR5 = 2033	MY5 = 5	CD5	C5 = CD5 / CD0	IRM5 = if (YR5 < EY) then (IRA0) else (IRP0)	IRI5 = IRM5 * C5	IRC5 = ∑IRIx; x: {0, …, MY5}	ERM5 = if (YR5 < EY) then (ERA0) else (ERP0)	ERI5 = ERM5 * C5	ERU5 = ∑ERIx; x: {0, …, MY5}	PRM5 = if (YR5 < EY) then (PRA0) else (PRP0)	PRI5 = PRM5 * C5	PRU5 = ∑PRIx; x: {0, …, MY5}	ORM5 = if (YR5 < EY) then (ORA0) else (ORP0)	ORI5 = ORM5 * C5	ORC5 = ∑ORIx; x: {0, …, MY5}
YR6 = 2034	MY6 = 6	CD6	C6 = CD6 / CD0	IRM6 = if (YR6 < EY) then (IRA0) else (IRP0)	IRI6 = IRM6 * C6	IRC6 = ∑IRIx; x: {0, …, MY6}	ERM6 = if (YR6 < EY) then (ERA0) else (ERP0)	ERI6 = ERM6 * C6	ERU6 = ∑ERIx; x: {0, …, MY6}	PRM6 = if (YR6 < EY) then (PRA0) else (PRP0)	PRI6 = PRM6 * C6	PRU6 = ∑PRIx; x: {0, …, MY6}	ORM6 = if (YR6 < EY) then (ORA0) else (ORP0)	ORI6 = ORM6 * C6	ORC6 = ∑ORIx; x: {0, …, MY6}
YR7 = 2035	MY7 = 7	CD7	C7 = CD7 / CD0	IRM7 = if (YR7 < EY) then (IRA0) else (IRP0)	IRI7 = IRM7 * C7	IRC7 = ∑IRIx; x: {0, …, MY7}	ERM7 = if (YR7 < EY) then (ERA0) else (ERP0)	ERI7 = ERM7 * C7	ERU7 = ∑ERIx; x: {0, …, MY7}	PRM7 = if (YR7 < EY) then (PRA0) else (PRP0)	PRI7 = PRM7 * C7	PRU7 = ∑PRIx; x: {0, …, MY7}	ORM7 = if (YR7 < EY) then (ORA0) else (ORP0)	ORI7 = ORM7 * C7	ORC7 = ∑ORIx; x: {0, …, MY7}
YR8 = 2036	MY8 = 8	CD8	C8 = CD8 / CD0	IRM8 = if (YR8 < EY) then (IRA0) else (IRP0)	IRI8 = IRM8 * C8	IRC8 = ∑IRIx; x: {0, …, MY8}	ERM8 = if (YR8 < EY) then (ERA0) else (ERP0)	ERI8 = ERM8 * C8	ERU8 = ∑ERIx; x: {0, …, MY8}	PRM8 = if (YR8 < EY) then (PRA0) else (PRP0)	PRI8 = PRM8 * C8	PRU8 = ∑PRIx; x: {0, …, MY8}	ORM8 = if (YR8 < EY) then (ORA0) else (ORP0)	ORI8 = ORM8 * C8	ORC8 = ∑ORIx; x: {0, …, MY8}
YR9 = 2037	MY9 = 9	CD9	C9 = CD9 / CD0	IRM9 = if (YR9 < EY) then (IRA0) else (IRP0)	IRI9 = IRM9 * C9	IRC9 = ∑IRIx; x: {0, …, MY9}	ERM9 = if (YR9 < EY) then (ERA0) else (ERP0)	ERI9 = ERM9 * C9	ERU9 = ∑ERIx; x: {0, …, MY9}	PRM9 = if (YR9 < EY) then (PRA0) else (PRP0)	PRI9 = PRM9 * C9	PRU9 = ∑PRIx; x: {0, …, MY9}	ORM9 = if (YR9 < EY) then (ORA0) else (ORP0)	ORI9 = ORM9 * C9	ORC9 = ∑ORIx; x: {0, …, MY9}
YR10 = 2038	MY10 = 10	CD10	C10 = CD10 / CD0	IRM10 = if (YR10 < EY) then (IRA0) else (IRP0)	IRI10 = IRM10 * C10	IRC10 = ∑IRIx; x: {0, …, MY10}	ERM10 = if (YR10 < EY) then (ERA0) else (ERP0)	ERI10 = ERM10 * C10	ERU10 = ∑ERIx; x: {0, …, MY10}	PRM10 = if (YR10 < EY) then (PRA0) else (PRP0)	PRI10 = PRM10 * C10	PRU10 = ∑PRIx; x: {0, …, MY10}	ORM10 = if (YR10 < EY) then (ORA0) else (ORP0)	ORI10 = ORM10 * C10	ORC10 = ∑ORIx; x: {0, …, MY10}
YR11 = 2039	MY11 = 11	CD11	C11 = CD11 / CD0	IRM11 = if (YR11 < EY) then (IRA0) else (IRP0)	IRI11 = IRM11 * C11	IRC11 = ∑IRIx; x: {0, …, MY11}	ERM11 = if (YR11 < EY) then (ERA0) else (ERP0)	ERI11 = ERM11 * C11	ERU11 = ∑ERIx; x: {0, …, MY11}	PRM11 = if (YR11 < EY) then (PRA0) else (PRP0)	PRI11 = PRM11 * C11	PRU11 = ∑PRIx; x: {0, …, MY11}	ORM11 = if (YR11 < EY) then (ORA0) else (ORP0)	ORI11 = ORM11 * C11	ORC11 = ∑ORIx; x: {0, …, MY11}
YR12 = 2040	MY12 = 12	CD12	C12 = CD12 / CD0	IRM12 = if (YR12 < EY) then (IRA0) else (IRP0)	IRI12 = IRM12 * C12	IRC12 = ∑IRIx; x: {0, …, MY12}	ERM12 = if (YR12 < EY) then (ERA0) else (ERP0)	ERI12 = ERM12 * C12	ERU12 = ∑ERIx; x: {0, …, MY12}	PRM12 = if (YR12 < EY) then (PRA0) else (PRP0)	PRI12 = PRM12 * C12	PRU12 = ∑PRIx; x: {0, …, MY12}	ORM12 = if (YR12 < EY) then (ORA0) else (ORP0)	ORI12 = ORM12 * C12	ORC12 = ∑ORIx; x: {0, …, MY12}
YR13 = 2041	MY13 = 13	CD13	C13 = CD13 / CD0	IRM13 = if (YR13 < EY) then (IRA0) else (IRP0)	IRI13 = IRM13 * C13	IRC13 = ∑IRIx; x: {0, …, MY13}	ERM13 = if (YR13 < EY) then (ERA0) else (ERP0)	ERI13 = ERM13 * C13	ERU13 = ∑ERIx; x: {0, …, MY13}	PRM13 = if (YR13 < EY) then (PRA0) else (PRP0)	PRI13 = PRM13 * C13	PRU13 = ∑PRIx; x: {0, …, MY13}	ORM13 = if (YR13 < EY) then (ORA0) else (ORP0)	ORI13 = ORM13 * C13	ORC13 = ∑ORIx; x: {0, …, MY13}
YR14 = 2042	MY14 = 14	CD14	C14 = CD14 / CD0	IRM14 = if (YR14 < EY) then (IRA0) else (IRP0)	IRI14 = IRM14 * C14	IRC14 = ∑IRIx; x: {0, …, MY14}	ERM14 = if (YR14 < EY) then (ERA0) else (ERP0)	ERI14 = ERM14 * C14	ERU14 = ∑ERIx; x: {0, …, MY14}	PRM14 = if (YR14 < EY) then (PRA0) else (PRP0)	PRI14 = PRM14 * C14	PRU14 = ∑PRIx; x: {0, …, MY14}	ORM14 = if (YR14 < EY) then (ORA0) else (ORP0)	ORI14 = ORM14 * C14	ORC14 = ∑ORIx; x: {0, …, MY14}
YR15 = 2043	MY15 = 15	CD15	C15 = CD15 / CD0	IRM15 = if (YR15 < EY) then (IRA0) else (IRP0)	IRI15 = IRM15 * C15	IRC15 = ∑IRIx; x: {0, …, MY15}	ERM15 = if (YR15 < EY) then (ERA0) else (ERP0)	ERI15 = ERM15 * C15	ERU15 = ∑ERIx; x: {0, …, MY15}	PRM15 = if (YR15 < EY) then (PRA0) else (PRP0)	PRI15 = PRM15 * C15	PRU15 = ∑PRIx; x: {0, …, MY15}	ORM15 = if (YR15 < EY) then (ORA0) else (ORP0)	ORI15 = ORM15 * C15	ORC15 = ∑ORIx; x: {0, …, MY15}
YR16 = 2044	MY16 = 16	CD16	C16 = CD16 / CD0	IRM16 = if (YR16 < EY) then (IRA0) else (IRP0)	IRI16 = IRM16 * C16	IRC16 = ∑IRIx; x: {0, …, MY16}	ERM16 = if (YR16 < EY) then (ERA0) else (ERP0)	ERI16 = ERM16 * C16	ERU16 = ∑ERIx; x: {0, …, MY16}	PRM16 = if (YR16 < EY) then (PRA0) else (PRP0)	PRI16 = PRM16 * C16	PRU16 = ∑PRIx; x: {0, …, MY16}	ORM16 = if (YR16 < EY) then (ORA0) else (ORP0)	ORI16 = ORM16 * C16	ORC16 = ∑ORIx; x: {0, …, MY16}
YR17 = 2045	MY17 = 17	CD17	C17 = CD17 / CD0	IRM17 = if (YR17 < EY) then (IRA0) else (IRP0)	IRI17 = IRM17 * C17	IRC17 = ∑IRIx; x: {0, …, MY17}	ERM17 = if (YR17 < EY) then (ERA0) else (ERP0)	ERI17 = ERM17 * C17	ERU17 = ∑ERIx; x: {0, …, MY17}	PRM17 = if (YR17 < EY) then (PRA0) else (PRP0)	PRI17 = PRM17 * C17	PRU17 = ∑PRIx; x: {0, …, MY17}	ORM17 = if (YR17 < EY) then (ORA0) else (ORP0)	ORI17 = ORM17 * C17	ORC17 = ∑ORIx; x: {0, …, MY17}
YR18 = 2046	MY18 = 18	CD18	C18 = CD18 / CD0	IRM18 = if (YR18 < EY) then (IRA0) else (IRP0)	IRI18 = IRM18 * C18	IRC18 = ∑IRIx; x: {0, …, MY18}	ERM18 = if (YR18 < EY) then (ERA0) else (ERP0)	ERI18 = ERM18 * C18	ERU18 = ∑ERIx; x: {0, …, MY18}	PRM18 = if (YR18 < EY) then (PRA0) else (PRP0)	PRI18 = PRM18 * C18	PRU18 = ∑PRIx; x: {0, …, MY18}	ORM18 = if (YR18 < EY) then (ORA0) else (ORP0)	ORI18 = ORM18 * C18	ORC18 = ∑ORIx; x: {0, …, MY18}
YR19 = 2047	MY19 = 19	CD19	C19 = CD19 / CD0	IRM19 = if (YR19 < EY) then (IRA0) else (IRP0)	IRI19 = IRM19 * C19	IRC19 = ∑IRIx; x: {0, …, MY19}	ERM19 = if (YR19 < EY) then (ERA0) else (ERP0)	ERI19 = ERM19 * C19	ERU19 = ∑ERIx; x: {0, …, MY19}	PRM19 = if (YR19 < EY) then (PRA0) else (PRP0)	PRI19 = PRM19 * C19	PRU19 = ∑PRIx; x: {0, …, MY19}	ORM19 = if (YR19 < EY) then (ORA0) else (ORP0)	ORI19 = ORM19 * C19	ORC19 = ∑ORIx; x: {0, …, MY19}
YR20 = 2048	MY20 = 20	CD20	C20 = CD20 / CD0	IRM20 = if (YR20 < EY) then (IRA0) else (IRP0)	IRI20 = IRM20 * C20	IRC20 = ∑IRIx; x: {0, …, MY20}	ERM20 = if (YR20 < EY) then (ERA0) else (ERP0)	ERI20 = ERM20 * C20	ERU20 = ∑ERIx; x: {0, …, MY20}	PRM20 = if (YR20 < EY) then (PRA0) else (PRP0)	PRI20 = PRM20 * C20	PRU20 = ∑PRIx; x: {0, …, MY20}	ORM20 = if (YR20 < EY) then (ORA0) else (ORP0)	ORI20 = ORM20 * C20	ORC20 = ∑ORIx; x: {0, …, MY20}
YR21 = 2049	MY21 = 21	CD21	C21 = CD21 / CD0	IRM21 = if (YR21 < EY) then (IRA0) else (IRP0)	IRI21 = IRM21 * C21	IRC21 = ∑IRIx; x: {0, …, MY21}	ERM21 = if (YR21 < EY) then (ERA0) else (ERP0)	ERI21 = ERM21 * C21	ERU21 = ∑ERIx; x: {0, …, MY21}	PRM21 = if (YR21 < EY) then (PRA0) else (PRP0)	PRI21 = PRM21 * C21	PRU21 = ∑PRIx; x: {0, …, MY21}	ORM21 = if (YR21 < EY) then (ORA0) else (ORP0)	ORI21 = ORM21 * C21	ORC21 = ∑ORIx; x: {0, …, MY21}
YR22 = 2050	MY22 = 22	CD22	C22 = CD22 / CD0	IRM22 = if (YR22 < EY) then (IRA0) else (IRP0)	IRI22 = IRM22 * C22	IRC22 = ∑IRIx; x: {0, …, MY22}	ERM22 = if (YR22 < EY) then (ERA0) else (ERP0)	ERI22 = ERM22 * C22	ERU22 = ∑ERIx; x: {0, …, MY22}	PRM22 = if (YR22 < EY) then (PRA0) else (PRP0)	PRI22 = PRM22 * C22	PRU22 = ∑PRIx; x: {0, …, MY22}	ORM22 = if (YR22 < EY) then (ORA0) else (ORP0)	ORI22 = ORM22 * C22	ORC22 = ∑ORIx; x: {0, …, MY22}
YR23 = 2051	MY23 = 23	CD23	C23 = CD23 / CD0	IRM23 = if (YR23 < EY) then (IRA0) else (IRP0)	IRI23 = IRM23 * C23	IRC23 = ∑IRIx; x: {0, …, MY23}	ERM23 = if (YR23 < EY) then (ERA0) else (ERP0)	ERI23 = ERM23 * C23	ERU23 = ∑ERIx; x: {0, …, MY23}	PRM23 = if (YR23 < EY) then (PRA0) else (PRP0)	PRI23 = PRM23 * C23	PRU23 = ∑PRIx; x: {0, …, MY23}	ORM23 = if (YR23 < EY) then (ORA0) else (ORP0)	ORI23 = ORM23 * C23	ORC23 = ∑ORIx; x: {0, …, MY23}
YR24 = 2052	MY24 = 24	CD24	C24 = CD24 / CD0	IRM24 = if (YR24 < EY) then (IRA0) else (IRP0)	IRI24 = IRM24 * C24	IRC24 = ∑IRIx; x: {0, …, MY24}	ERM24 = if (YR24 < EY) then (ERA0) else (ERP0)	ERI24 = ERM24 * C24	ERU24 = ∑ERIx; x: {0, …, MY24}	PRM24 = if (YR24 < EY) then (PRA0) else (PRP0)	PRI24 = PRM24 * C24	PRU24 = ∑PRIx; x: {0, …, MY24}	ORM24 = if (YR24 < EY) then (ORA0) else (ORP0)	ORI24 = ORM24 * C24	ORC24 = ∑ORIx; x: {0, …, MY24}
YR25 = 2053	MY25 = 25	CD25	C25 = CD25 / CD0	IRM25 = if (YR25 < EY) then (IRA0) else (IRP0)	IRI25 = IRM25 * C25	IRC25 = ∑IRIx; x: {0, …, MY25}	ERM25 = if (YR25 < EY) then (ERA0) else (ERP0)	ERI25 = ERM25 * C25	ERU25 = ∑ERIx; x: {0, …, MY25}	PRM25 = if (YR25 < EY) then (PRA0) else (PRP0)	PRI25 = PRM25 * C25	PRU25 = ∑PRIx; x: {0, …, MY25}	ORM25 = if (YR25 < EY) then (ORA0) else (ORP0)	ORI25 = ORM25 * C25	ORC25 = ∑ORIx; x: {0, …, MY25}
YR26 = 2054	MY26 = 26	CD26	C26 = CD26 / CD0	IRM26 = if (YR26 < EY) then (IRA0) else (IRP0)	IRI26 = IRM26 * C26	IRC26 = ∑IRIx; x: {0, …, MY26}	ERM26 = if (YR26 < EY) then (ERA0) else (ERP0)	ERI26 = ERM26 * C26	ERU26 = ∑ERIx; x: {0, …, MY26}	PRM26 = if (YR26 < EY) then (PRA0) else (PRP0)	PRI26 = PRM26 * C26	PRU26 = ∑PRIx; x: {0, …, MY26}	ORM26 = if (YR26 < EY) then (ORA0) else (ORP0)	ORI26 = ORM26 * C26	ORC26 = ∑ORIx; x: {0, …, MY26}
YR27 = 2055	MY27 = 27	CD27	C27 = CD27 / CD0	IRM27 = if (YR27 < EY) then (IRA0) else (IRP0)	IRI27 = IRM27 * C27	IRC27 = ∑IRIx; x: {0, …, MY27}	ERM27 = if (YR27 < EY) then (ERA0) else (ERP0)	ERI27 = ERM27 * C27	ERU27 = ∑ERIx; x: {0, …, MY27}	PRM27 = if (YR27 < EY) then (PRA0) else (PRP0)	PRI27 = PRM27 * C27	PRU27 = ∑PRIx; x: {0, …, MY27}	ORM27 = if (YR27 < EY) then (ORA0) else (ORP0)	ORI27 = ORM27 * C27	ORC27 = ∑ORIx; x: {0, …, MY27}
YR28 = 2056	MY28 = 28	CD28	C28 = CD28 / CD0	IRM28 = if (YR28 < EY) then (IRA0) else (IRP0)	IRI28 = IRM28 * C28	IRC28 = ∑IRIx; x: {0, …, MY28}	ERM28 = if (YR28 < EY) then (ERA0) else (ERP0)	ERI28 = ERM28 * C28	ERU28 = ∑ERIx; x: {0, …, MY28}	PRM28 = if (YR28 < EY) then (PRA0) else (PRP0)	PRI28 = PRM28 * C28	PRU28 = ∑PRIx; x: {0, …, MY28}	ORM28 = if (YR28 < EY) then (ORA0) else (ORP0)	ORI28 = ORM28 * C28	ORC28 = ∑ORIx; x: {0, …, MY28}
YR29 = 2057	MY29 = 29	CD29	C29 = CD29 / CD0	IRM29 = if (YR29 < EY) then (IRA0) else (IRP0)	IRI29 = IRM29 * C29	IRC29 = ∑IRIx; x: {0, …, MY29}	ERM29 = if (YR29 < EY) then (ERA0) else (ERP0)	ERI29 = ERM29 * C29	ERU29 = ∑ERIx; x: {0, …, MY29}	PRM29 = if (YR29 < EY) then (PRA0) else (PRP0)	PRI29 = PRM29 * C29	PRU29 = ∑PRIx; x: {0, …, MY29}	ORM29 = if (YR29 < EY) then (ORA0) else (ORP0)	ORI29 = ORM29 * C29	ORC29 = ∑ORIx; x: {0, …, MY29}
YR30 = 2058	MY30 = 30	CD30	C30 = CD30 / CD0	IRM30 = if (YR30 < EY) then (IRA0) else (IRP0)	IRI30 = IRM30 * C30	IRC30 = ∑IRIx; x: {0, …, MY30}	ERM30 = if (YR30 < EY) then (ERA0) else (ERP0)	ERI30 = ERM30 * C30	ERU30 = ∑ERIx; x: {0, …, MY30}	PRM30 = if (YR30 < EY) then (PRA0) else (PRP0)	PRI30 = PRM30 * C30	PRU30 = ∑PRIx; x: {0, …, MY30}	ORM30 = if (YR30 < EY) then (ORA0) else (ORP0)	ORI30 = ORM30 * C30	ORC30 = ∑ORIx; x: {0, …, MY30}
YR31 = 2059	MY31 = 31	CD31	C31 = CD31 / CD0	IRM31 = if (YR31 < EY) then (IRA0) else (IRP0)	IRI31 = IRM31 * C31	IRC31 = ∑IRIx; x: {0, …, MY31}	ERM31 = if (YR31 < EY) then (ERA0) else (ERP0)	ERI31 = ERM31 * C31	ERU31 = ∑ERIx; x: {0, …, MY31}	PRM31 = if (YR31 < EY) then (PRA0) else (PRP0)	PRI31 = PRM31 * C31	PRU31 = ∑PRIx; x: {0, …, MY31}	ORM31 = if (YR31 < EY) then (ORA0) else (ORP0)	ORI31 = ORM31 * C31	ORC31 = ∑ORIx; x: {0, …, MY31}
YR32 = 2060	MY32 = 32	CD32	C32 = CD32 / CD0	IRM32 = if (YR32 < EY) then (IRA0) else (IRP0)	IRI32 = IRM32 * C32	IRC32 = ∑IRIx; x: {0, …, MY32}	ERM32 = if (YR32 < EY) then (ERA0) else (ERP0)	ERI32 = ERM32 * C32	ERU32 = ∑ERIx; x: {0, …, MY32}	PRM32 = if (YR32 < EY) then (PRA0) else (PRP0)	PRI32 = PRM32 * C32	PRU32 = ∑PRIx; x: {0, …, MY32}	ORM32 = if (YR32 < EY) then (ORA0) else (ORP0)	ORI32 = ORM32 * C32	ORC32 = ∑ORIx; x: {0, …, MY32}
YR33 = 2061	MY33 = 33	CD33	C33 = CD33 / CD0	IRM33 = if (YR33 < EY) then (IRA0) else (IRP0)	IRI33 = IRM33 * C33	IRC33 = ∑IRIx; x: {0, …, MY33}	ERM33 = if (YR33 < EY) then (ERA0) else (ERP0)	ERI33 = ERM33 * C33	ERU33 = ∑ERIx; x: {0, …, MY33}	PRM33 = if (YR33 < EY) then (PRA0) else (PRP0)	PRI33 = PRM33 * C33	PRU33 = ∑PRIx; x: {0, …, MY33}	ORM33 = if (YR33 < EY) then (ORA0) else (ORP0)	ORI33 = ORM33 * C33	ORC33 = ∑ORIx; x: {0, …, MY33}
YR34 = 2062	MY34 = 34	CD34	C34 = CD34 / CD0	IRM34 = if (YR34 < EY) then (IRA0) else (IRP0)	IRI34 = IRM34 * C34	IRC34 = ∑IRIx; x: {0, …, MY34}	ERM34 = if (YR34 < EY) then (ERA0) else (ERP0)	ERI34 = ERM34 * C34	ERU34 = ∑ERIx; x: {0, …, MY34}	PRM34 = if (YR34 < EY) then (PRA0) else (PRP0)	PRI34 = PRM34 * C34	PRU34 = ∑PRIx; x: {0, …, MY34}	ORM34 = if (YR34 < EY) then (ORA0) else (ORP0)	ORI34 = ORM34 * C34	ORC34 = ∑ORIx; x: {0, …, MY34}
YR35 = 2063	MY35 = 35	CD35	C35 = CD35 / CD0	IRM35 = if (YR35 < EY) then (IRA0) else (IRP0)	IRI35 = IRM35 * C35	IRC35 = ∑IRIx; x: {0, …, MY35}	ERM35 = if (YR35 < EY) then (ERA0) else (ERP0)	ERI35 = ERM35 * C35	ERU35 = ∑ERIx; x: {0, …, MY35}	PRM35 = if (YR35 < EY) then (PRA0) else (PRP0)	PRI35 = PRM35 * C35	PRU35 = ∑PRIx; x: {0, …, MY35}	ORM35 = if (YR35 < EY) then (ORA0) else (ORP0)	ORI35 = ORM35 * C35	ORC35 = ∑ORIx; x: {0, …, MY35}
YR36 = 2064	MY36 = 36	CD36	C36 = CD36 / CD0	IRM36 = if (YR36 < EY) then (IRA0) else (IRP0)	IRI36 = IRM36 * C36	IRC36 = ∑IRIx; x: {0, …, MY36}	ERM36 = if (YR36 < EY) then (ERA0) else (ERP0)	ERI36 = ERM36 * C36	ERU36 = ∑ERIx; x: {0, …, MY36}	PRM36 = if (YR36 < EY) then (PRA0) else (PRP0)	PRI36 = PRM36 * C36	PRU36 = ∑PRIx; x: {0, …, MY36}	ORM36 = if (YR36 < EY) then (ORA0) else (ORP0)	ORI36 = ORM36 * C36	ORC36 = ∑ORIx; x: {0, …, MY36}
YR37 = 2065	MY37 = 37	CD37	C37 = CD37 / CD0	IRM37 = if (YR37 < EY) then (IRA0) else (IRP0)	IRI37 = IRM37 * C37	IRC37 = ∑IRIx; x: {0, …, MY37}	ERM37 = if (YR37 < EY) then (ERA0) else (ERP0)	ERI37 = ERM37 * C37	ERU37 = ∑ERIx; x: {0, …, MY37}	PRM37 = if (YR37 < EY) then (PRA0) else (PRP0)	PRI37 = PRM37 * C37	PRU37 = ∑PRIx; x: {0, …, MY37}	ORM37 = if (YR37 < EY) then (ORA0) else (ORP0)	ORI37 = ORM37 * C37	ORC37 = ∑ORIx; x: {0, …, MY37}
YR38 = 2066	MY38 = 38	CD38	C38 = CD38 / CD0	IRM38 = if (YR38 < EY) then (IRA0) else (IRP0)	IRI38 = IRM38 * C38	IRC38 = ∑IRIx; x: {0, …, MY38}	ERM38 = if (YR38 < EY) then (ERA0) else (ERP0)	ERI38 = ERM38 * C38	ERU38 = ∑ERIx; x: {0, …, MY38}	PRM38 = if (YR38 < EY) then (PRA0) else (PRP0)	PRI38 = PRM38 * C38	PRU38 = ∑PRIx; x: {0, …, MY38}	ORM38 = if (YR38 < EY) then (ORA0) else (ORP0)	ORI38 = ORM38 * C38	ORC38 = ∑ORIx; x: {0, …, MY38}
YR39 = 2067	MY39 = 39	CD39	C39 = CD39 / CD0	IRM39 = if (YR39 < EY) then (IRA0) else (IRP0)	IRI39 = IRM39 * C39	IRC39 = ∑IRIx; x: {0, …, MY39}	ERM39 = if (YR39 < EY) then (ERA0) else (ERP0)	ERI39 = ERM39 * C39	ERU39 = ∑ERIx; x: {0, …, MY39}	PRM39 = if (YR39 < EY) then (PRA0) else (PRP0)	PRI39 = PRM39 * C39	PRU39 = ∑PRIx; x: {0, …, MY39}	ORM39 = if (YR39 < EY) then (ORA0) else (ORP0)	ORI39 = ORM39 * C39	ORC39 = ∑ORIx; x: {0, …, MY39}
YR40 = 2068	MY40 = 40	CD40	C40 = CD40 / CD0	IRM40 = if (YR40 < EY) then (IRA0) else (IRP0)	IRI40 = IRM40 * C40	IRC40 = ∑IRIx; x: {0, …, MY40}	ERM40 = if (YR40 < EY) then (ERA0) else (ERP0)	ERI40 = ERM40 * C40	ERU40 = ∑ERIx; x: {0, …, MY40}	PRM40 = if (YR40 < EY) then (PRA0) else (PRP0)	PRI40 = PRM40 * C40	PRU40 = ∑PRIx; x: {0, …, MY40}	ORM40 = if (YR40 < EY) then (ORA0) else (ORP0)	ORI40 = ORM40 * C40	ORC40 = ∑ORIx; x: {0, …, MY40}
YR41 = 2069	MY41 = 41	CD41	C41 = CD41 / CD0	IRM41 = if (YR41 < EY) then (IRA0) else (IRP0)	IRI41 = IRM41 * C41	IRC41 = ∑IRIx; x: {0, …, MY41}	ERM41 = if (YR41 < EY) then (ERA0) else (ERP0)	ERI41 = ERM41 * C41	ERU41 = ∑ERIx; x: {0, …, MY41}	PRM41 = if (YR41 < EY) then (PRA0) else (PRP0)	PRI41 = PRM41 * C41	PRU41 = ∑PRIx; x: {0, …, MY41}	ORM41 = if (YR41 < EY) then (ORA0) else (ORP0)	ORI41 = ORM41 * C41	ORC41 = ∑ORIx; x: {0, …, MY41}
YR42 = 2070	MY42 = 42	CD42	C42 = CD42 / CD0	IRM42 = if (YR42 < EY) then (IRA0) else (IRP0)	IRI42 = IRM42 * C42	IRC42 = ∑IRIx; x: {0, …, MY42}	ERM42 = if (YR42 < EY) then (ERA0) else (ERP0)	ERI42 = ERM42 * C42	ERU42 = ∑ERIx; x: {0, …, MY42}	PRM42 = if (YR42 < EY) then (PRA0) else (PRP0)	PRI42 = PRM42 * C42	PRU42 = ∑PRIx; x: {0, …, MY42}	ORM42 = if (YR42 < EY) then (ORA0) else (ORP0)	ORI42 = ORM42 * C42	ORC42 = ∑ORIx; x: {0, …, MY42}
YR43 = 2071	MY43 = 43	CD43	C43 = CD43 / CD0	IRM43 = if (YR43 < EY) then (IRA0) else (IRP0)	IRI43 = IRM43 * C43	IRC43 = ∑IRIx; x: {0, …, MY43}	ERM43 = if (YR43 < EY) then (ERA0) else (ERP0)	ERI43 = ERM43 * C43	ERU43 = ∑ERIx; x: {0, …, MY43}	PRM43 = if (YR43 < EY) then (PRA0) else (PRP0)	PRI43 = PRM43 * C43	PRU43 = ∑PRIx; x: {0, …, MY43}	ORM43 = if (YR43 < EY) then (ORA0) else (ORP0)	ORI43 = ORM43 * C43	ORC43 = ∑ORIx; x: {0, …, MY43}
YR44 = 2072	MY44 = 44	CD44	C44 = CD44 / CD0	IRM44 = if (YR44 < EY) then (IRA0) else (IRP0)	IRI44 = IRM44 * C44	IRC44 = ∑IRIx; x: {0, …, MY44}	ERM44 = if (YR44 < EY) then (ERA0) else (ERP0)	ERI44 = ERM44 * C44	ERU44 = ∑ERIx; x: {0, …, MY44}	PRM44 = if (YR44 < EY) then (PRA0) else (PRP0)	PRI44 = PRM44 * C44	PRU44 = ∑PRIx; x: {0, …, MY44}	ORM44 = if (YR44 < EY) then (ORA0) else (ORP0)	ORI44 = ORM44 * C44	ORC44 = ∑ORIx; x: {0, …, MY44}
YR45 = 2073	MY45 = 45	CD45	C45 = CD45 / CD0	IRM45 = if (YR45 < EY) then (IRA0) else (IRP0)	IRI45 = IRM45 * C45	IRC45 = ∑IRIx; x: {0, …, MY45}	ERM45 = if (YR45 < EY) then (ERA0) else (ERP0)	ERI45 = ERM45 * C45	ERU45 = ∑ERIx; x: {0, …, MY45}	PRM45 = if (YR45 < EY) then (PRA0) else (PRP0)	PRI45 = PRM45 * C45	PRU45 = ∑PRIx; x: {0, …, MY45}	ORM45 = if (YR45 < EY) then (ORA0) else (ORP0)	ORI45 = ORM45 * C45	ORC45 = ∑ORIx; x: {0, …, MY45}
YR46 = 2074	MY46 = 46	CD46	C46 = CD46 / CD0	IRM46 = if (YR46 < EY) then (IRA0) else (IRP0)	IRI46 = IRM46 * C46	IRC46 = ∑IRIx; x: {0, …, MY46}	ERM46 = if (YR46 < EY) then (ERA0) else (ERP0)	ERI46 = ERM46 * C46	ERU46 = ∑ERIx; x: {0, …, MY46}	PRM46 = if (YR46 < EY) then (PRA0) else (PRP0)	PRI46 = PRM46 * C46	PRU46 = ∑PRIx; x: {0, …, MY46}	ORM46 = if (YR46 < EY) then (ORA0) else (ORP0)	ORI46 = ORM46 * C46	ORC46 = ∑ORIx; x: {0, …, MY46}
YR47 = 2075	MY47 = 47	CD47	C47 = CD47 / CD0	IRM47 = if (YR47 < EY) then (IRA0) else (IRP0)	IRI47 = IRM47 * C47	IRC47 = ∑IRIx; x: {0, …, MY47}	ERM47 = if (YR47 < EY) then (ERA0) else (ERP0)	ERI47 = ERM47 * C47	ERU47 = ∑ERIx; x: {0, …, MY47}	PRM47 = if (YR47 < EY) then (PRA0) else (PRP0)	PRI47 = PRM47 * C47	PRU47 = ∑PRIx; x: {0, …, MY47}	ORM47 = if (YR47 < EY) then (ORA0) else (ORP0)	ORI47 = ORM47 * C47	ORC47 = ∑ORIx; x: {0, …, MY47}
YR48 = 2076	MY48 = 48	CD48	C48 = CD48 / CD0	IRM48 = if (YR48 < EY) then (IRA0) else (IRP0)	IRI48 = IRM48 * C48	IRC48 = ∑IRIx; x: {0, …, MY48}	ERM48 = if (YR48 < EY) then (ERA0) else (ERP0)	ERI48 = ERM48 * C48	ERU48 = ∑ERIx; x: {0, …, MY48}	PRM48 = if (YR48 < EY) then (PRA0) else (PRP0)	PRI48 = PRM48 * C48	PRU48 = ∑PRIx; x: {0, …, MY48}	ORM48 = if (YR48 < EY) then (ORA0) else (ORP0)	ORI48 = ORM48 * C48	ORC48 = ∑ORIx; x: {0, …, MY48}
YR49 = 2077	MY49 = 49	CD49	C49 = CD49 / CD0	IRM49 = if (YR49 < EY) then (IRA0) else (IRP0)	IRI49 = IRM49 * C49	IRC49 = ∑IRIx; x: {0, …, MY49}	ERM49 = if (YR49 < EY) then (ERA0) else (ERP0)	ERI49 = ERM49 * C49	ERU49 = ∑ERIx; x: {0, …, MY49}	PRM49 = if (YR49 < EY) then (PRA0) else (PRP0)	PRI49 = PRM49 * C49	PRU49 = ∑PRIx; x: {0, …, MY49}	ORM49 = if (YR49 < EY) then (ORA0) else (ORP0)	ORI49 = ORM49 * C49	ORC49 = ∑ORIx; x: {0, …, MY49}
YR50 = 2078	MY50 = 50	CD50	C50 = CD50 / CD0	IRM50 = if (YR50 < EY) then (IRA0) else (IRP0)	IRI50 = IRM50 * C50	IRC50 = ∑IRIx; x: {0, …, MY50}	ERM50 = if (YR50 < EY) then (ERA0) else (ERP0)	ERI50 = ERM50 * C50	ERU50 = ∑ERIx; x: {0, …, MY50}	PRM50 = if (YR50 < EY) then (PRA0) else (PRP0)	PRI50 = PRM50 * C50	PRU50 = ∑PRIx; x: {0, …, MY50}	ORM50 = if (YR50 < EY) then (ORA0) else (ORP0)	ORI50 = ORM50 * C50	ORC50 = ∑ORIx; x: {0, …, MY50}
YR51 = 2079	MY51 = 51	CD51	C51 = CD51 / CD0	IRM51 = if (YR51 < EY) then (IRA0) else (IRP0)	IRI51 = IRM51 * C51	IRC51 = ∑IRIx; x: {0, …, MY51}	ERM51 = if (YR51 < EY) then (ERA0) else (ERP0)	ERI51 = ERM51 * C51	ERU51 = ∑ERIx; x: {0, …, MY51}	PRM51 = if (YR51 < EY) then (PRA0) else (PRP0)	PRI51 = PRM51 * C51	PRU51 = ∑PRIx; x: {0, …, MY51}	ORM51 = if (YR51 < EY) then (ORA0) else (ORP0)	ORI51 = ORM51 * C51	ORC51 = ∑ORIx; x: {0, …, MY51}
YR52 = 2080	MY52 = 52	CD52	C52 = CD52 / CD0	IRM52 = if (YR52 < EY) then (IRA0) else (IRP0)	IRI52 = IRM52 * C52	IRC52 = ∑IRIx; x: {0, …, MY52}	ERM52 = if (YR52 < EY) then (ERA0) else (ERP0)	ERI52 = ERM52 * C52	ERU52 = ∑ERIx; x: {0, …, MY52}	PRM52 = if (YR52 < EY) then (PRA0) else (PRP0)	PRI52 = PRM52 * C52	PRU52 = ∑PRIx; x: {0, …, MY52}	ORM52 = if (YR52 < EY) then (ORA0) else (ORP0)	ORI52 = ORM52 * C52	ORC52 = ∑ORIx; x: {0, …, MY52}
YR53 = 2081	MY53 = 53	CD53	C53 = CD53 / CD0	IRM53 = if (YR53 < EY) then (IRA0) else (IRP0)	IRI53 = IRM53 * C53	IRC53 = ∑IRIx; x: {0, …, MY53}	ERM53 = if (YR53 < EY) then (ERA0) else (ERP0)	ERI53 = ERM53 * C53	ERU53 = ∑ERIx; x: {0, …, MY53}	PRM53 = if (YR53 < EY) then (PRA0) else (PRP0)	PRI53 = PRM53 * C53	PRU53 = ∑PRIx; x: {0, …, MY53}	ORM53 = if (YR53 < EY) then (ORA0) else (ORP0)	ORI53 = ORM53 * C53	ORC53 = ∑ORIx; x: {0, …, MY53}
YR54 = 2082	MY54 = 54	CD54	C54 = CD54 / CD0	IRM54 = if (YR54 < EY) then (IRA0) else (IRP0)	IRI54 = IRM54 * C54	IRC54 = ∑IRIx; x: {0, …, MY54}	ERM54 = if (YR54 < EY) then (ERA0) else (ERP0)	ERI54 = ERM54 * C54	ERU54 = ∑ERIx; x: {0, …, MY54}	PRM54 = if (YR54 < EY) then (PRA0) else (PRP0)	PRI54 = PRM54 * C54	PRU54 = ∑PRIx; x: {0, …, MY54}	ORM54 = if (YR54 < EY) then (ORA0) else (ORP0)	ORI54 = ORM54 * C54	ORC54 = ∑ORIx; x: {0, …, MY54}
YR55 = 2083	MY55 = 55	CD55	C55 = CD55 / CD0	IRM55 = if (YR55 < EY) then (IRA0) else (IRP0)	IRI55 = IRM55 * C55	IRC55 = ∑IRIx; x: {0, …, MY55}	ERM55 = if (YR55 < EY) then (ERA0) else (ERP0)	ERI55 = ERM55 * C55	ERU55 = ∑ERIx; x: {0, …, MY55}	PRM55 = if (YR55 < EY) then (PRA0) else (PRP0)	PRI55 = PRM55 * C55	PRU55 = ∑PRIx; x: {0, …, MY55}	ORM55 = if (YR55 < EY) then (ORA0) else (ORP0)	ORI55 = ORM55 * C55	ORC55 = ∑ORIx; x: {0, …, MY55}
YR56 = 2084	MY56 = 56	CD56	C56 = CD56 / CD0	IRM56 = if (YR56 < EY) then (IRA0) else (IRP0)	IRI56 = IRM56 * C56	IRC56 = ∑IRIx; x: {0, …, MY56}	ERM56 = if (YR56 < EY) then (ERA0) else (ERP0)	ERI56 = ERM56 * C56	ERU56 = ∑ERIx; x: {0, …, MY56}	PRM56 = if (YR56 < EY) then (PRA0) else (PRP0)	PRI56 = PRM56 * C56	PRU56 = ∑PRIx; x: {0, …, MY56}	ORM56 = if (YR56 < EY) then (ORA0) else (ORP0)	ORI56 = ORM56 * C56	ORC56 = ∑ORIx; x: {0, …, MY56}
YR57 = 2085	MY57 = 57	CD57	C57 = CD57 / CD0	IRM57 = if (YR57 < EY) then (IRA0) else (IRP0)	IRI57 = IRM57 * C57	IRC57 = ∑IRIx; x: {0, …, MY57}	ERM57 = if (YR57 < EY) then (ERA0) else (ERP0)	ERI57 = ERM57 * C57	ERU57 = ∑ERIx; x: {0, …, MY57}	PRM57 = if (YR57 < EY) then (PRA0) else (PRP0)	PRI57 = PRM57 * C57	PRU57 = ∑PRIx; x: {0, …, MY57}	ORM57 = if (YR57 < EY) then (ORA0) else (ORP0)	ORI57 = ORM57 * C57	ORC57 = ∑ORIx; x: {0, …, MY57}
YR58 = 2086	MY58 = 58	CD58	C58 = CD58 / CD0	IRM58 = if (YR58 < EY) then (IRA0) else (IRP0)	IRI58 = IRM58 * C58	IRC58 = ∑IRIx; x: {0, …, MY58}	ERM58 = if (YR58 < EY) then (ERA0) else (ERP0)	ERI58 = ERM58 * C58	ERU58 = ∑ERIx; x: {0, …, MY58}	PRM58 = if (YR58 < EY) then (PRA0) else (PRP0)	PRI58 = PRM58 * C58	PRU58 = ∑PRIx; x: {0, …, MY58}	ORM58 = if (YR58 < EY) then (ORA0) else (ORP0)	ORI58 = ORM58 * C58	ORC58 = ∑ORIx; x: {0, …, MY58}
YR59 = 2087	MY59 = 59	CD59	C59 = CD59 / CD0	IRM59 = if (YR59 < EY) then (IRA0) else (IRP0)	IRI59 = IRM59 * C59	IRC59 = ∑IRIx; x: {0, …, MY59}	ERM59 = if (YR59 < EY) then (ERA0) else (ERP0)	ERI59 = ERM59 * C59	ERU59 = ∑ERIx; x: {0, …, MY59}	PRM59 = if (YR59 < EY) then (PRA0) else (PRP0)	PRI59 = PRM59 * C59	PRU59 = ∑PRIx; x: {0, …, MY59}	ORM59 = if (YR59 < EY) then (ORA0) else (ORP0)	ORI59 = ORM59 * C59	ORC59 = ∑ORIx; x: {0, …, MY59}
YR60 = 2088	MY60 = 60	CD60	C60 = CD60 / CD0	IRM60 = if (YR60 < EY) then (IRA0) else (IRP0)	IRI60 = IRM60 * C60	IRC60 = ∑IRIx; x: {0, …, MY60}	ERM60 = if (YR60 < EY) then (ERA0) else (ERP0)	ERI60 = ERM60 * C60	ERU60 = ∑ERIx; x: {0, …, MY60}	PRM60 = if (YR60 < EY) then (PRA0) else (PRP0)	PRI60 = PRM60 * C60	PRU60 = ∑PRIx; x: {0, …, MY60}	ORM60 = if (YR60 < EY) then (ORA0) else (ORP0)	ORI60 = ORM60 * C60	ORC60 = ∑ORIx; x: {0, …, MY60}
YR61 = 2089	MY61 = 61	CD61	C61 = CD61 / CD0	IRM61 = if (YR61 < EY) then (IRA0) else (IRP0)	IRI61 = IRM61 * C61	IRC61 = ∑IRIx; x: {0, …, MY61}	ERM61 = if (YR61 < EY) then (ERA0) else (ERP0)	ERI61 = ERM61 * C61	ERU61 = ∑ERIx; x: {0, …, MY61}	PRM61 = if (YR61 < EY) then (PRA0) else (PRP0)	PRI61 = PRM61 * C61	PRU61 = ∑PRIx; x: {0, …, MY61}	ORM61 = if (YR61 < EY) then (ORA0) else (ORP0)	ORI61 = ORM61 * C61	ORC61 = ∑ORIx; x: {0, …, MY61}
YR62 = 2090	MY62 = 62	CD62	C62 = CD62 / CD0	IRM62 = if (YR62 < EY) then (IRA0) else (IRP0)	IRI62 = IRM62 * C62	IRC62 = ∑IRIx; x: {0, …, MY62}	ERM62 = if (YR62 < EY) then (ERA0) else (ERP0)	ERI62 = ERM62 * C62	ERU62 = ∑ERIx; x: {0, …, MY62}	PRM62 = if (YR62 < EY) then (PRA0) else (PRP0)	PRI62 = PRM62 * C62	PRU62 = ∑PRIx; x: {0, …, MY62}	ORM62 = if (YR62 < EY) then (ORA0) else (ORP0)	ORI62 = ORM62 * C62	ORC62 = ∑ORIx; x: {0, …, MY62}
YR63 = 2091	MY63 = 63	CD63	C63 = CD63 / CD0	IRM63 = if (YR63 < EY) then (IRA0) else (IRP0)	IRI63 = IRM63 * C63	IRC63 = ∑IRIx; x: {0, …, MY63}	ERM63 = if (YR63 < EY) then (ERA0) else (ERP0)	ERI63 = ERM63 * C63	ERU63 = ∑ERIx; x: {0, …, MY63}	PRM63 = if (YR63 < EY) then (PRA0) else (PRP0)	PRI63 = PRM63 * C63	PRU63 = ∑PRIx; x: {0, …, MY63}	ORM63 = if (YR63 < EY) then (ORA0) else (ORP0)	ORI63 = ORM63 * C63	ORC63 = ∑ORIx; x: {0, …, MY63}
YR64 = 2092	MY64 = 64	CD64	C64 = CD64 / CD0	IRM64 = if (YR64 < EY) then (IRA0) else (IRP0)	IRI64 = IRM64 * C64	IRC64 = ∑IRIx; x: {0, …, MY64}	ERM64 = if (YR64 < EY) then (ERA0) else (ERP0)	ERI64 = ERM64 * C64	ERU64 = ∑ERIx; x: {0, …, MY64}	PRM64 = if (YR64 < EY) then (PRA0) else (PRP0)	PRI64 = PRM64 * C64	PRU64 = ∑PRIx; x: {0, …, MY64}	ORM64 = if (YR64 < EY) then (ORA0) else (ORP0)	ORI64 = ORM64 * C64	ORC64 = ∑ORIx; x: {0, …, MY64}
YR65 = 2093	MY65 = 65	CD65	C65 = CD65 / CD0	IRM65 = if (YR65 < EY) then (IRA0) else (IRP0)	IRI65 = IRM65 * C65	IRC65 = ∑IRIx; x: {0, …, MY65}	ERM65 = if (YR65 < EY) then (ERA0) else (ERP0)	ERI65 = ERM65 * C65	ERU65 = ∑ERIx; x: {0, …, MY65}	PRM65 = if (YR65 < EY) then (PRA0) else (PRP0)	PRI65 = PRM65 * C65	PRU65 = ∑PRIx; x: {0, …, MY65}	ORM65 = if (YR65 < EY) then (ORA0) else (ORP0)	ORI65 = ORM65 * C65	ORC65 = ∑ORIx; x: {0, …, MY65}
YR66 = 2094	MY66 = 66	CD66	C66 = CD66 / CD0	IRM66 = if (YR66 < EY) then (IRA0) else (IRP0)	IRI66 = IRM66 * C66	IRC66 = ∑IRIx; x: {0, …, MY66}	ERM66 = if (YR66 < EY) then (ERA0) else (ERP0)	ERI66 = ERM66 * C66	ERU66 = ∑ERIx; x: {0, …, MY66}	PRM66 = if (YR66 < EY) then (PRA0) else (PRP0)	PRI66 = PRM66 * C66	PRU66 = ∑PRIx; x: {0, …, MY66}	ORM66 = if (YR66 < EY) then (ORA0) else (ORP0)	ORI66 = ORM66 * C66	ORC66 = ∑ORIx; x: {0, …, MY66}

Instantaneous and Cumulative Ignition Risk and Outage Program Risk by Model Year Numerical Examples - Low Risk Scenario

Low Risk Scenario

Estimated Project Completion / Segment Used and Useful Year

Est. Completion / Used and Useful Year	2030

2028 Ignition Risk for Circuit Segment

Pre-Mitigation Risk (IRA0), A : 'ante'	$1.00
Residual Risk (IRP0), P : 'post'	$0.13

2028 Outage Program Risk for Circuit Segment

Pre-Mitigation Risk (ORA0), A : 'ante'	$0.09
Residual Risk (ORP0), P : 'post'	$0.02

2028 EPSS Risk for Circuit Segment

Pre-Mitigation Risk (ERA0), A : 'ante'	$0.02
Residual Risk (ERP0), P : 'post'	$0.02

2028 PSPS Risk for Circuit Segment

Pre-Mitigation Risk (PRA0), A : 'ante'	$0.07
Residual Risk (PRP0), P : 'post'	$0.00

Year (YRx)	Model Year (MYx)	Climate Factor Dividend (CDx)	2028-Normalized Climate Factor (CNx = CDx / CD0)	Instantaneous Ignition Risk Multiplicand (IRMx = if (YRx < EY) then (IRAx) else (IRPx))	Instantaneous Ignition Risk (IRx = IRMx * Cx)	Cumulative Ignition Risk (IRCx = ∑IRix; x: (0, ..., MYx))	Instantaneous EPSS Risk Multiplicand (ERMx = if (YRx < EY) then (ERAx) else (ERPx))	Instantaneous EPSS Risk (ERIx = ERMx * Cx)	Cumulative EPSS Risk (ERUx = ∑ERix; x: (0, ..., MYx))	Instantaneous PSPS Risk Multiplicand (PRMx = if (YRx < EY) then (PRAx) else (PRPx))	Instantaneous PSPS Risk (PRIx = PRMx * Cx)	Cumulative PSPS Risk (PRUx = ∑PRix; x: (0, ..., MYx))	Instantaneous Outage Program Risk Multiplicand (ORMx = if (YRx < EY) then (ORAx) else (ORPx))	Instantaneous Outage Program Risk (ORIx = ORMx * Cx)	Cumulative Outage Program Risk (ORCx = ∑ORix; x: (0, ..., MYx))
2028	0	1.000	1.000	$1.00	$1.00	$1.00	$0.02	$0.02	$0.02	$0.07	$0.07	$0.07	$0.09	$0.09	$0.09
2029	1	1.007	1.007	$1.00	$1.01	$2.01	$0.02	$0.02	$0.04	$0.07	$0.07	$0.14	$0.09	$0.09	$0.18
2030	2	1.014	1.014	$0.13	$0.13	$2.13	$0.02	$0.02	$0.06	$0.00	$0.00	$0.14	$0.02	$0.02	$0.20
2031	3	1.021	1.021	$0.13	$0.13	$2.26	$0.02	$0.02	$0.08	$0.00	$0.00	$0.14	$0.02	$0.02	$0.22
2032	4	1.027	1.027	$0.13	$0.13	$2.39	$0.02	$0.02	$0.10	$0.00	$0.00	$0.14	$0.02	$0.02	$0.24
2033	5	1.034	1.034	$0.13	$0.13	$2.52	$0.02	$0.02	$0.12	$0.00	$0.00	$0.14	$0.02	$0.02	$0.26
2034	6	1.039	1.039	$0.13	$0.13	$2.65	$0.02	$0.02	$0.14	$0.00	$0.00	$0.14	$0.02	$0.02	$0.28
2035	7	1.044	1.044	$0.13	$0.13	$2.78	$0.02	$0.02	$0.16	$0.00	$0.00	$0.14	$0.02	$0.02	$0.30
2036	8	1.050	1.050	$0.13	$0.13	$2.91	$0.02	$0.02	$0.18	$0.00	$0.00	$0.14	$0.02	$0.02	$0.33
2037	9	1.055	1.055	$0.13	$0.13	$3.04	$0.02	$0.02	$0.21	$0.00	$0.00	$0.14	$0.02	$0.02	$0.35
2038	10	1.060	1.060	$0.13	$0.13	$3.18	$0.02	$0.02	$0.23	$0.00	$0.00	$0.14	$0.02	$0.02	$0.37
2039	11	1.065	1.065	$0.13	$0.13	$3.31	$0.02	$0.02	$0.25	$0.00	$0.00	$0.14	$0.02	$0.02	$0.39
2040	12	1.070	1.070	$0.13	$0.13	$3.44	$0.02	$0.02	$0.27	$0.00	$0.00	$0.14	$0.02	$0.02	$0.41
2041	13	1.075	1.075	$0.13	$0.13	$3.58	$0.02	$0.02	$0.29	$0.00	$0.00	$0.14	$0.02	$0.02	$0.43
2042	14	1.080	1.080	$0.13	$0.14	$3.71	$0.02	$0.02	$0.31	$0.00	$0.00	$0.14	$0.02	$0.02	$0.45
2043	15	1.085	1.085	$0.13	$0.14	$3.85	$0.02	$0.02	$0.33	$0.00	$0.00	$0.14	$0.02	$0.02	$0.48
2044	16	1.090	1.090	$0.13	$0.14	$3.98	$0.02	$0.02	$0.36	$0.00	$0.00	$0.14	$0.02	$0.02	$0.50
2045	17	1.095	1.095	$0.13	$0.14	$4.12	$0.02	$0.02	$0.38	$0.00	$0.00	$0.14	$0.02	$0.02	$0.52
2046	18	1.100	1.100	$0.13	$0.14	$4.26	$0.02	$0.02	$0.40	$0.00	$0.00	$0.14	$0.02	$0.02	$0.54
2047	19	1.105	1.105	$0.13	$0.14	$4.40	$0.02	$0.02	$0.42	$0.00	$0.00	$0.14	$0.02	$0.02	$0.56
2048	20	1.110	1.110	$0.13	$0.14	$4.53	$0.02	$0.02	$0.44	$0.00	$0.00	$0.14	$0.02	$0.02	$0.59
2049	21	1.115	1.115	$0.13	$0.14	$4.67	$0.02	$0.02	$0.47	$0.00	$0.00	$0.14	$0.02	$0.02	$0.61
2050	22	1.120	1.120	$0.13	$0.14	$4.81	$0.02	$0.02	$0.49	$0.00	$0.00	$0.14	$0.02	$0.02	$0.63
2051	23	1.125	1.125	$0.13	$0.14	$4.95	$0.02	$0.02	$0.51	$0.00	$0.00	$0.14	$0.02	$0.02	$0.65
2052	24	1.130	1.130	$0.13	$0.14	$5.10	$0.02	$0.02	$0.53	$0.00	$0.00	$0.14	$0.02	$0.02	$0.67
2053	25	1.135	1.135	$0.13	$0.14	$5.24	$0.02	$0.02	$0.56	$0.00	$0.00	$0.14	$0.02	$0.02	$0.70
2054	26	1.144	1.144	$0.13	$0.14	$5.38	$0.02	$0.02	$0.58	$0.00	$0.00	$0.14	$0.02	$0.02	$0.72
2055	27	1.154	1.154	$0.13	$0.14	$5.52	$0.02	$0.02	$0.60	$0.00	$0.00	$0.14	$0.02	$0.02	$0.74
2056	28	1.164	1.164	$0.13	$0.15	$5.67	$0.02	$0.02	$0.63	$0.00	$0.00	$0.14	$0.02	$0.02	$0.77
2057	29	1.174	1.174	$0.13	$0.15	$5.82	$0.02	$0.02	$0.65	$0.00	$0.00	$0.14	$0.02	$0.02	$0.79
2058	30	1.184	1.184	$0.13	$0.15	$5.97	$0.02	$0.02	$0.67	$0.00	$0.00	$0.14	$0.02	$0.02	$0.81
2059	31	1.194	1.194	$0.13	$0.15	$6.11	$0.02	$0.02	$0.70	$0.00	$0.00	$0.14	$0.02	$0.02	$0.84
2060	32	1.204	1.204	$0.13	$0.15	$6.26	$0.02	$0.02	$0.72	$0.00	$0.00	$0.14	$0.02	$0.02	$0.86
2061	33	1.214	1.214	$0.13	$0.15	$6.42	$0.02	$0.02	$0.75	$0.00	$0.00	$0.14	$0.02	$0.02	$0.89
2062	34	1.224	1.224	$0.13	$0.15	$6.57	$0.02	$0.02	$0.77	$0.00	$0.00	$0.14	$0.02	$0.02	$0.91
2063	35	1.234	1.234	$0.13	$0.15	$6.72	$0.02	$0.02	$0.79	$0.00	$0.00	$0.14	$0.02	$0.02	$0.94
2064	36	1.244	1.244	$0.13	$0.16	$6.88	$0.02	$0.02	$0.82	$0.00	$0.00	$0.14	$0.02	$0.02	$0.96
2065	37	1.254	1.254	$0.13	$0.16	$7.04	$0.02	$0.02	$0.84	$0.00	$0.00	$0.14	$0.02	$0.03	$0.99
2066	38	1.264	1.264	$0.13	$0.16	$7.19	$0.02	$0.03	$0.87	$0.00	$0.00	$0.14	$0.02	$0.03	$1.01
2067	39	1.274	1.274	$0.13	$0.16	$7.35	$0.02	$0.03	$0.90	$0.00	$0.00	$0.14	$0.02	$0.03	$1.04
2068	40	1.284	1.284	$0.13	$0.16	$7.51	$0.02	$0.03	$0.92	$0.00	$0.00	$0.14	$0.02	$0.03	$1.06
2069	41	1.295	1.295	$0.13	$0.16	$7.68	$0.02	$0.03	$0.95	$0.00	$0.00	$0.14	$0.02	$0.03	$1.09
2070	42	1.305	1.305	$0.13	$0.16	$7.84	$0.02	$0.03	$0.97	$0.00	$0.00	$0.14	$0.02	$0.03	$1.11
2071	43	1.315	1.315	$0.13	$0.16	$8.00	$0.02	$0.03	$1.00	$0.00	$0.00	$0.14	$0.02	$0.03	$1.14
2072	44	1.326	1.326	$0.13	$0.17	$8.17	$0.02	$0.03	$1.03	$0.00	$0.00	$0.14	$0.02	$0.03	$1.17
2073	45	1.336	1.336	$0.13	$0.17	$8.34	$0.02	$0.03	$1.05	$0.00	$0.00	$0.14	$0.02	$0.03	$1.19
2074	46	1.346	1.346	$0.13	$0.17	$8.50	$0.02	$0.03	$1.08	$0.00	$0.00	$0.14	$0.02	$0.03	$1.22
2075	47	1.357	1.357	$0.13	$0.17	$8.67	$0.02	$0.03	$1.11	$0.00	$0.00	$0.14	$0.02	$0.03	$1.25
2076	48	1.367	1.367	$0.13	$0.17	$8.84	$0.02	$0.03	$1.13	$0.00	$0.00	$0.14	$0.02	$0.03	$1.27
2077	49	1.378	1.378	$0.13	$0.17	$9.02	$0.02	$0.03	$1.16	$0.00	$0.00	$0.14	$0.02	$0.03	$1.30
2078	50	1.389	1.389	$0.13	$0.17	$9.19	$0.02	$0.03	$1.19	$0.00	$0.00	$0.14	$0.02	$0.03	$1.33
2079	51	1.399	1.399	$0.13	$0.17	$9.37	$0.02	$0.03	$1.22	$0.00	$0.00	$0.14	$0.02	$0.03	$1.36
2080	52	1.410	1.410	$0.13	$0.18	$9.54	$0.02	$0.03	$1.25	$0.00	$0.00	$0.14	$0.02	$0.03	$1.39
2081	53	1.420	1.420	$0.13	$0.18	$9.72	$0.02	$0.03	$1.27	$0.00	$0.00	$0.14	$0.02	$0.03	$1.41
2082	54	1.431	1.431	$0.13	$0.18	$9.90	$0.02	$0.03	$1.30	$0.00	$0.00	$0.14	$0.02	$0.03	$1.44
2083	55	1.442	1.442	$0.13	$0.18	$10.08	$0.02	$0.03	$1.33	$0.00	$0.00	$0.14	$0.02	$0.03	$1.47
2084	56	1.453	1.453	$0.13	$0.18	$10.26	$0.02	$0.03	$1.36	$0.00	$0.00	$0.14	$0.02	$0.03	$1.50
2085	57	1.464	1.464	$0.13	$0.18	$10.44	$0.02	$0.03	$1.39	$0.00	$0.00	$0.14	$0.02	$0.03	$1.53
2086	58	1.474	1.474	$0.13	$0.18	$10.63	$0.02	$0.03	$1.42	$0.00	$0.00	$0.14	$0.02	$0.03	$1.56
2087	59	1.485	1.485	$0.13	$0.19	$10.81	$0.02	$0.03	$1.45	$0.00	$0.00	$0.14	$0.02	$0.03	$1.59
2088	60	1.496	1.496	$0.13	$0.19	$11.00	$0.02	$0.03	$1.48	$0.00	$0.00	$0.14	$0.02	$0.03	$1.62
2089	61	1.507	1.507	$0.13	$0.19	$11.19	$0.02	$0.03	$1.51	$0.00	$0.00	$0.14	$0.02	$0.03	$1.65
2090	62	1.518	1.518	$0.13	$0.19	$11.38	$0.02	$0.03	$1.54	$0.00	$0.00	$0.14	$0.02	$0.03	$1.68
2091	63	1.529	1.529	$0.13	$0.19	$11.57	$0.02	$0.03	$1.57	$0.00	$0.00	$0.14	$0.02	$0.03	$1.71
2092	64	1.540	1.540	$0.13	$0.19	$11.76	$0.02	$0.03	$1.60	$0.00	$0.00	$0.14	$0.02	$0.03	$1.74
2093	65	1.552	1.552	$0.13	$0.19	$11.96	$0.02	$0.03	$1.63	$0.00	$0.00	$0.14	$0.02	$0.03	$1.77
2094	66	1.563	1.563	$0.13	$0.20	$12.15	$0.02	$0.03	$1.66	$0.00	$0.00	$0.14	$0.02	$0.03	$1.80

Instantaneous and Cumulative Ignition Risk and Outage Program Risk by Model Year Numerical Examples - Medium Risk Scenario

Medium Risk Scenario

Estimated Project Completion / Segment Used and Useful Year

Est. Completion / Used and Useful Year	2029

2028 Ignition Risk for Circuit Segment

Pre-Mitigation Risk (IRA0), A : 'ante'	$2.00
Residual Risk (IRP0), P : 'post'	$0.25

2028 Outage Program Risk for Circuit Segment

Pre-Mitigation Risk (ORA0), A : 'ante'	$6.60
Residual Risk (ORP0), P : 'post'	$3.78

2028 EPSS Risk for Circuit Segment

Pre-Mitigation Risk (ERA0), A : 'ante'	$3.78
Residual Risk (ERP0), P : 'post'	$3.78

2028 PSPS Risk for Circuit Segment

Pre-Mitigation Risk (PRA0), A : 'ante'	$2.82
Residual Risk (PRP0), P : 'post'	$0.00

Year (YRx)	Model Year (MYx)	Climate Factor Dividend (CDx)	2028-Normalized Climate Factor (CNx = CDx / CD0)	Instantaneous Ignition Risk Multiplicand (IRMx = if (YRx < EY) then (IRAx) else (IRPx))	Instantaneous Ignition Risk (IRx = IRMx * Cx)	Cumulative Ignition Risk (IRCx = ∑IRIx; x: (0, ..., MYx))	Instantaneous EPSS Risk Multiplicand (ERMx = if (YRx < EY) then (ERAx) else (ERPx))	Instantaneous EPSS Risk (ERIx = ERMx * Cx)	Cumulative EPSS Risk (ERUx = ∑ERIx; x: (0, ..., MYx))	Instantaneous PSPS Risk Multiplicand (PRMx = if (YRx < EY) then (PRAx) else (PRPx))	Instantaneous PSPS Risk (PRIx = PRMx * Cx)	Cumulative PSPS Risk (PRUx = ∑PRIx; x: (0, ..., MYx))	Instantaneous Outage Program Risk Multiplicand (ORMx = if (YRx < EY) then (ORAx) else (ORPx))	Instantaneous Outage Program Risk (ORIx = ORMx * Cx)	Cumulative Outage Program Risk (ORCx = ∑ORIx; x: (0, ..., MYx))
2028	0	1.000	1.000	$0.25	$2.00	$2.00	$3.78	$3.78	$3.78	$2.82	$2.82	$2.82	$6.60	$6.60	$6.60
2029	1	1.007	1.007	$0.25	$0.25	$2.25	$3.78	$3.81	$7.59	$0.00	$0.00	$2.82	$3.78	$3.81	$10.41
2030	2	1.014	1.014	$0.25	$0.25	$2.51	$3.78	$3.83	$11.42	$0.00	$0.00	$2.82	$3.78	$3.83	$14.24
2031	3	1.021	1.021	$0.25	$0.26	$2.76	$3.78	$3.86	$15.28	$0.00	$0.00	$2.82	$3.78	$3.86	$18.10
2032	4	1.027	1.027	$0.25	$0.26	$3.02	$3.78	$3.88	$19.16	$0.00	$0.00	$2.82	$3.78	$3.88	$21.98
2033	5	1.034	1.034	$0.25	$0.26	$3.28	$3.78	$3.91	$23.07	$0.00	$0.00	$2.82	$3.78	$3.91	$25.89
2034	6	1.039	1.039	$0.25	$0.26	$3.54	$3.78	$3.93	$27.00	$0.00	$0.00	$2.82	$3.78	$3.93	$29.82
2035	7	1.044	1.044	$0.25	$0.26	$3.80	$3.78	$3.95	$30.94	$0.00	$0.00	$2.82	$3.78	$3.95	$33.76
2036	8	1.050	1.050	$0.25	$0.26	$4.06	$3.78	$3.97	$34.91	$0.00	$0.00	$2.82	$3.78	$3.97	$37.73
2037	9	1.055	1.055	$0.25	$0.26	$4.32	$3.78	$3.99	$38.90	$0.00	$0.00	$2.82	$3.78	$3.99	$41.72
2038	10	1.060	1.060	$0.25	$0.27	$4.59	$3.78	$4.01	$42.91	$0.00	$0.00	$2.82	$3.78	$4.01	$45.73
2039	11	1.065	1.065	$0.25	$0.27	$4.85	$3.78	$4.03	$46.93	$0.00	$0.00	$2.82	$3.78	$4.03	$49.75
2040	12	1.070	1.070	$0.25	$0.27	$5.12	$3.78	$4.04	$50.98	$0.00	$0.00	$2.82	$3.78	$4.04	$53.80
2041	13	1.075	1.075	$0.25	$0.27	$5.39	$3.78	$4.06	$55.04	$0.00	$0.00	$2.82	$3.78	$4.06	$57.86
2042	14	1.080	1.080	$0.25	$0.27	$5.66	$3.78	$4.08	$59.12	$0.00	$0.00	$2.82	$3.78	$4.08	$61.94
2043	15	1.085	1.085	$0.25	$0.27	$5.93	$3.78	$4.10	$63.22	$0.00	$0.00	$2.82	$3.78	$4.10	$66.04
2044	16	1.090	1.090	$0.25	$0.27	$6.20	$3.78	$4.12	$67.34	$0.00	$0.00	$2.82	$3.78	$4.12	$70.16
2045	17	1.095	1.095	$0.25	$0.27	$6.48	$3.78	$4.14	$71.48	$0.00	$0.00	$2.82	$3.78	$4.14	$74.30
2046	18	1.100	1.100	$0.25	$0.28	$6.75	$3.78	$4.16	$75.64	$0.00	$0.00	$2.82	$3.78	$4.16	$78.46
2047	19	1.105	1.105	$0.25	$0.28	$7.03	$3.78	$4.18	$79.82	$0.00	$0.00	$2.82	$3.78	$4.18	$82.64
2048	20	1.110	1.110	$0.25	$0.28	$7.31	$3.78	$4.20	$84.01	$0.00	$0.00	$2.82	$3.78	$4.20	$86.83
2049	21	1.115	1.115	$0.25	$0.28	$7.59	$3.78	$4.21	$88.23	$0.00	$0.00	$2.82	$3.78	$4.21	$91.05
2050	22	1.120	1.120	$0.25	$0.28	$7.87	$3.78	$4.23	$92.46	$0.00	$0.00	$2.82	$3.78	$4.23	$95.28
2051	23	1.125	1.125	$0.25	$0.28	$8.15	$3.78	$4.25	$96.72	$0.00	$0.00	$2.82	$3.78	$4.25	$99.54
2052	24	1.130	1.130	$0.25	$0.28	$8.43	$3.78	$4.27	$100.99	$0.00	$0.00	$2.82	$3.78	$4.27	$103.81
2053	25	1.135	1.135	$0.25	$0.28	$8.71	$3.78	$4.29	$105.28	$0.00	$0.00	$2.82	$3.78	$4.29	$108.10
2054	26	1.144	1.144	$0.25	$0.29	$9.00	$3.78	$4.32	$109.60	$0.00	$0.00	$2.82	$3.78	$4.32	$112.42
2055	27	1.154	1.154	$0.25	$0.29	$9.29	$3.78	$4.36	$113.96	$0.00	$0.00	$2.82	$3.78	$4.36	$116.78
2056	28	1.164	1.164	$0.25	$0.29	$9.58	$3.78	$4.40	$118.36	$0.00	$0.00	$2.82	$3.78	$4.40	$121.18
2057	29	1.174	1.174	$0.25	$0.29	$9.87	$3.78	$4.44	$122.80	$0.00	$0.00	$2.82	$3.78	$4.44	$125.62
2058	30	1.184	1.184	$0.25	$0.30	$10.17	$3.78	$4.48	$127.28	$0.00	$0.00	$2.82	$3.78	$4.48	$130.10
2059	31	1.194	1.194	$0.25	$0.30	$10.47	$3.78	$4.51	$131.79	$0.00	$0.00	$2.82	$3.78	$4.51	$134.61
2060	32	1.204	1.204	$0.25	$0.30	$10.77	$3.78	$4.55	$136.34	$0.00	$0.00	$2.82	$3.78	$4.55	$139.16
2061	33	1.214	1.214	$0.25	$0.30	$11.07	$3.78	$4.59	$140.93	$0.00	$0.00	$2.82	$3.78	$4.59	$143.75
2062	34	1.224	1.224	$0.25	$0.31	$11.38	$3.78	$4.63	$145.56	$0.00	$0.00	$2.82	$3.78	$4.63	$148.38
2063	35	1.234	1.234	$0.25	$0.31	$11.69	$3.78	$4.66	$150.22	$0.00	$0.00	$2.82	$3.78	$4.66	$153.04
2064	36	1.244	1.244	$0.25	$0.31	$12.00	$3.78	$4.70	$154.92	$0.00	$0.00	$2.82	$3.78	$4.70	$157.74
2065	37	1.254	1.254	$0.25	$0.31	$12.31	$3.78	$4.74	$159.66	$0.00	$0.00	$2.82	$3.78	$4.74	$162.48
2066	38	1.264	1.264	$0.25	$0.32	$12.63	$3.78	$4.78	$164.44	$0.00	$0.00	$2.82	$3.78	$4.78	$167.26
2067	39	1.274	1.274	$0.25	$0.32	$12.94	$3.78	$4.82	$169.26	$0.00	$0.00	$2.82	$3.78	$4.82	$172.08
2068	40	1.284	1.284	$0.25	$0.32	$13.27	$3.78	$4.85	$174.11	$0.00	$0.00	$2.82	$3.78	$4.85	$176.93
2069	41	1.295	1.295	$0.25	$0.32	$13.59	$3.78	$4.90	$179.01	$0.00	$0.00	$2.82	$3.78	$4.90	$181.83
2070	42	1.305	1.305	$0.25	$0.33	$13.92	$3.78	$4.93	$183.94	$0.00	$0.00	$2.82	$3.78	$4.93	$186.76
2071	43	1.315	1.315	$0.25	$0.33	$14.24	$3.78	$4.97	$188.91	$0.00	$0.00	$2.82	$3.78	$4.97	$191.73
2072	44	1.326	1.326	$0.25	$0.33	$14.58	$3.78	$5.01	$193.92	$0.00	$0.00	$2.82	$3.78	$5.01	$196.74
2073	45	1.336	1.336	$0.25	$0.33	$14.91	$3.78	$5.05	$198.97	$0.00	$0.00	$2.82	$3.78	$5.05	$201.79
2074	46	1.346	1.346	$0.25	$0.34	$15.25	$3.78	$5.09	$204.06	$0.00	$0.00	$2.82	$3.78	$5.09	$206.88
2075	47	1.357	1.357	$0.25	$0.34	$15.59	$3.78	$5.13	$209.19	$0.00	$0.00	$2.82	$3.78	$5.13	$212.01
2076	48	1.367	1.367	$0.25	$0.34	$15.93	$3.78	$5.17	$214.36	$0.00	$0.00	$2.82	$3.78	$5.17	$217.18
2077	49	1.378	1.378	$0.25	$0.34	$16.27	$3.78	$5.21	$219.57	$0.00	$0.00	$2.82	$3.78	$5.21	$222.39
2078	50	1.389	1.389	$0.25	$0.35	$16.62	$3.78	$5.25	$224.82	$0.00	$0.00	$2.82	$3.78	$5.25	$227.64
2079	51	1.399	1.399	$0.25	$0.35	$16.97	$3.78	$5.29	$230.10	$0.00	$0.00	$2.82	$3.78	$5.29	$232.92
2080	52	1.410	1.410	$0.25	$0.35	$17.32	$3.78	$5.33	$235.43	$0.00	$0.00	$2.82	$3.78	$5.33	$238.25
2081	53	1.420	1.420	$0.25	$0.36	$17.68	$3.78	$5.37	$240.80	$0.00	$0.00	$2.82	$3.78	$5.37	$243.62
2082	54	1.431	1.431	$0.25	$0.36	$18.03	$3.78	$5.41	$246.21	$0.00	$0.00	$2.82	$3.78	$5.41	$249.03
2083	55	1.442	1.442	$0.25	$0.36	$18.39	$3.78	$5.45	$251.66	$0.00	$0.00	$2.82	$3.78	$5.45	$254.48
2084	56	1.453	1.453	$0.25	$0.36	$18.76	$3.78	$5.49	$257.15	$0.00	$0.00	$2.82	$3.78	$5.49	$259.97
2085	57	1.464	1.464	$0.25	$0.37	$19.12	$3.78	$5.53	$262.69	$0.00	$0.00	$2.82	$3.78	$5.53	$265.51
2086	58	1.474	1.474	$0.25	$0.37	$19.49	$3.78	$5.57	$268.26	$0.00	$0.00	$2.82	$3.78	$5.57	$271.08
2087	59	1.485	1.485	$0.25	$0.37	$19.86	$3.78	$5.61	$273.87	$0.00	$0.00	$2.82	$3.78	$5.61	$276.69
2088	60	1.496	1.496	$0.25	$0.37	$20.24	$3.78	$5.65	$279.53	$0.00	$0.00	$2.82	$3.78	$5.65	$282.35
2089	61	1.507	1.507	$0.25	$0.38	$20.61	$3.78	$5.70	$285.22	$0.00	$0.00	$2.82	$3.78	$5.70	$288.04
2090	62	1.518	1.518	$0.25	$0.38	$20.99	$3.78	$5.74	$290.96	$0.00	$0.00	$2.82	$3.78	$5.74	$293.78
2091	63	1.529	1.529	$0.25	$0.38	$21.38	$3.78	$5.78	$296.74	$0.00	$0.00	$2.82	$3.78	$5.78	$299.56
2092	64	1.540	1.540	$0.25	$0.39	$21.76	$3.78	$5.82	$302.56	$0.00	$0.00	$2.82	$3.78	$5.82	$305.38
2093	65	1.552	1.552	$0.25	$0.39	$22.15	$3.78	$5.87	$308.43	$0.00	$0.00	$2.82	$3.78	$5.87	$311.25
2094	66	1.563	1.563	$0.25	$0.39	$22.54	$3.78	$5.91	$314.34	$0.00	$0.00	$2.82	$3.78	$5.91	$317.16

Instantaneous and Cumulative Ignition Risk and Outage Program Risk by Model Year Numerical Examples - High Risk Scenario

High Risk Scenario

Estimated Project Completion / Segment Used and Useful Year

Est. Completion / Used and Useful Year	2028

2028 Ignition Risk for Circuit Segment

Pre-Mitigation Risk (IRA0), A : 'ante'	$4.00
Residual Risk (IRP0), P : 'post'	$0.50

2028 Outage Program Risk for Circuit Segment

Pre-Mitigation Risk (ORA0), A : 'ante'	$22.59
Residual Risk (ORP0), P : 'post'	$16.08

2028 EPSS Risk for Circuit Segment

Pre-Mitigation Risk (ERA0), A : 'ante'	$16.08
Residual Risk (ERP0), P : 'post'	$16.08

2028 PSPS Risk for Circuit Segment

Pre-Mitigation Risk (PRA0), A : 'ante'	$6.51
Residual Risk (PRP0), P : 'post'	$0.00

Year (YRx)	Model Year (MYx)	Climate Factor Dividend (CDx)	2028-Normalized Climate Factor (CNx = CDx / CD0)	Instantaneous Ignition Risk Multiplicand (IRMx = if (YRx < EY) then (IRAx) else (IRPx))	Instantaneous Ignition Risk (IRx = IRMx * Cx)	Cumulative Ignition Risk (IRCx = ∑IRIx; x: (0, ..., MYx))	Instantaneous EPSS Risk Multiplicand (ERMx = if (YRx < EY) then (ERAx) else (ERPx))	Instantaneous EPSS Risk (ERIx = ERMx * Cx)	Cumulative EPSS Risk (ERUx = ∑ERIx; x: (0, ..., MYx))	Instantaneous PSPS Risk Multiplicand (PRMx = if (YRx < EY) then (PRAx) else (PRPx))	Instantaneous PSPS Risk (PRIx = PRMx * Cx)	Cumulative PSPS Risk (PRUx = ∑PRIx; x: (0, ..., MYx))	Instantaneous Outage Program Risk Multiplicand (ORMx = if (YRx < EY) then (ORAx) else (ORPx))	Instantaneous Outage Program Risk (ORIx = ORMx * Cx)	Cumulative Outage Program Risk (ORCx = ∑ORIx; x: (0, ..., MYx))
2028	0	1.000	1.000	$0.50	$0.50	$0.50	$16.08	$16.08	$16.08	$0.00	$0.00	$0.00	$16.08	$16.08	$16.08
2029	1	1.007	1.007	$0.50	$0.50	$1.00	$16.08	$16.19	$32.27	$0.00	$0.00	$0.00	$16.08	$16.19	$32.27
2030	2	1.014	1.014	$0.50	$0.51	$1.51	$16.08	$16.31	$48.58	$0.00	$0.00	$0.00	$16.08	$16.31	$48.58
2031	3	1.021	1.021	$0.50	$0.51	$2.02	$16.08	$16.42	$65.00	$0.00	$0.00	$0.00	$16.08	$16.42	$65.00
2032	4	1.027	1.027	$0.50	$0.51	$2.53	$16.08	$16.51	$81.51	$0.00	$0.00	$0.00	$16.08	$16.51	$81.51
2033	5	1.034	1.034	$0.50	$0.52	$3.05	$16.08	$16.63	$98.14	$0.00	$0.00	$0.00	$16.08	$16.63	$98.14
2034	6	1.039	1.039	$0.50	$0.52	$3.57	$16.08	$16.71	$114.84	$0.00	$0.00	$0.00	$16.08	$16.71	$114.84
2035	7	1.044	1.044	$0.50	$0.52	$4.09	$16.08	$16.79	$131.63	$0.00	$0.00	$0.00	$16.08	$16.79	$131.63
2036	8	1.050	1.050	$0.50	$0.53	$4.62	$16.08	$16.88	$148.51	$0.00	$0.00	$0.00	$16.08	$16.88	$148.51
2037	9	1.055	1.055	$0.50	$0.53	$5.15	$16.08	$16.96	$165.48	$0.00	$0.00	$0.00	$16.08	$16.96	$165.48
2038	10	1.060	1.060	$0.50	$0.53	$5.68	$16.08	$17.04	$182.52	$0.00	$0.00	$0.00	$16.08	$17.04	$182.52
2039	11	1.065	1.065	$0.50	$0.53	$6.21	$16.08	$17.13	$199.65	$0.00	$0.00	$0.00	$16.08	$17.13	$199.65
2040	12	1.070	1.070	$0.50	$0.54	$6.74	$16.08	$17.21	$216.85	$0.00	$0.00	$0.00	$16.08	$17.21	$216.85
2041	13	1.075	1.075	$0.50	$0.54	$7.28	$16.08	$17.29	$234.14	$0.00	$0.00	$0.00	$16.08	$17.29	$234.14
2042	14	1.080	1.080	$0.50	$0.54	$7.82	$16.08	$17.37	$251.51	$0.00	$0.00	$0.00	$16.08	$17.37	$251.51
2043	15	1.085	1.085	$0.50	$0.54	$8.36	$16.08	$17.45	$268.95	$0.00	$0.00	$0.00	$16.08	$17.45	$268.95
2044	16	1.090	1.090	$0.50	$0.55	$8.91	$16.08	$17.53	$286.48	$0.00	$0.00	$0.00	$16.08	$17.53	$286.48
2045	17	1.095	1.095	$0.50	$0.55	$9.46	$16.08	$17.61	$304.09	$0.00	$0.00	$0.00	$16.08	$17.61	$304.09
2046	18	1.100	1.100	$0.50	$0.55	$10.01	$16.08	$17.69	$321.78	$0.00	$0.00	$0.00	$16.08	$17.69	$321.78
2047	19	1.105	1.105	$0.50	$0.55	$10.56	$16.08	$17.77	$339.55	$0.00	$0.00	$0.00	$16.08	$17.77	$339.55
2048	20	1.110	1.110	$0.50	$0.56	$11.11	$16.08	$17.85	$357.39	$0.00	$0.00	$0.00	$16.08	$17.85	$357.39
2049	21	1.115	1.115	$0.50	$0.56	$11.67	$16.08	$17.93	$375.32	$0.00	$0.00	$0.00	$16.08	$17.93	$375.32
2050	22	1.120	1.120	$0.50	$0.56	$12.23	$16.08	$18.01	$393.33	$0.00	$0.00	$0.00	$16.08	$18.01	$393.33
2051	23	1.125	1.125	$0.50	$0.56	$12.79	$16.08	$18.09	$411.42	$0.00	$0.00	$0.00	$16.08	$18.09	$411.42
2052	24	1.130	1.130	$0.50	$0.57	$13.36	$16.08	$18.17	$429.59	$0.00	$0.00	$0.00	$16.08	$18.17	$429.59
2053	25	1.135	1.135	$0.50	$0.57	$13.93	$16.08	$18.25	$447.84	$0.00	$0.00	$0.00	$16.08	$18.25	$447.84
2054	26	1.144	1.144	$0.50	$0.57	$14.50	$16.08	$18.40	$466.24	$0.00	$0.00	$0.00	$16.08	$18.40	$466.24
2055	27	1.154	1.154	$0.50	$0.58	$15.07	$16.08	$18.56	$484.80	$0.00	$0.00	$0.00	$16.08	$18.56	$484.80
2056	28	1.164	1.164	$0.50	$0.58	$15.66	$16.08	$18.72	$503.51	$0.00	$0.00	$0.00	$16.08	$18.72	$503.51
2057	29	1.174	1.174	$0.50	$0.59	$16.24	$16.08	$18.88	$522.39	$0.00	$0.00	$0.00	$16.08	$18.88	$522.39
2058	30	1.184	1.184	$0.50	$0.59	$16.84	$16.08	$19.04	$541.43	$0.00	$0.00	$0.00	$16.08	$19.04	$541.43
2059	31	1.194	1.194	$0.50	$0.60	$17.43	$16.08	$19.20	$560.63	$0.00	$0.00	$0.00	$16.08	$19.20	$560.63
2060	32	1.204	1.204	$0.50	$0.60	$18.03	$16.08	$19.36	$579.99	$0.00	$0.00	$0.00	$16.08	$19.36	$579.99
2061	33	1.214	1.214	$0.50	$0.61	$18.64	$16.08	$19.52	$599.51	$0.00	$0.00	$0.00	$16.08	$19.52	$599.51
2062	34	1.224	1.224	$0.50	$0.61	$19.25	$16.08	$19.68	$619.19	$0.00	$0.00	$0.00	$16.08	$19.68	$619.19
2063	35	1.234	1.234	$0.50	$0.62	$19.87	$16.08	$19.84	$639.04	$0.00	$0.00	$0.00	$16.08	$19.84	$639.04
2064	36	1.244	1.244	$0.50	$0.62	$20.49	$16.08	$20.00	$659.04	$0.00	$0.00	$0.00	$16.08	$20.00	$659.04
2065	37	1.254	1.254	$0.50	$0.63	$21.12	$16.08	$20.16	$679.20	$0.00	$0.00	$0.00	$16.08	$20.16	$679.20
2066	38	1.264	1.264	$0.50	$0.63	$21.75	$16.08	$20.33	$699.53	$0.00	$0.00	$0.00	$16.08	$20.33	$699.53
2067	39	1.274	1.274	$0.50	$0.64	$22.39	$16.08	$20.49	$720.01	$0.00	$0.00	$0.00	$16.08	$20.49	$720.01
2068	40	1.284	1.284	$0.50	$0.64	$23.03	$16.08	$20.65	$740.66	$0.00	$0.00	$0.00	$16.08	$20.65	$740.66
2069	41	1.295	1.295	$0.50	$0.65	$23.68	$16.08	$20.82	$761.48	$0.00	$0.00	$0.00	$16.08	$20.82	$761.48
2070	42	1.305	1.305	$0.50	$0.65	$24.33	$16.08	$20.98	$782.47	$0.00	$0.00	$0.00	$16.08	$20.98	$782.47
2071	43	1.315	1.315	$0.50	$0.66	$24.99	$16.08	$21.15	$803.61	$0.00	$0.00	$0.00	$16.08	$21.15	$803.61
2072	44	1.326	1.326	$0.50	$0.66	$25.65	$16.08	$21.32	$824.94	$0.00	$0.00	$0.00	$16.08	$21.32	$824.94
2073	45	1.336	1.336	$0.50	$0.67	$26.32	$16.08	$21.48	$846.42	$0.00	$0.00	$0.00	$16.08	$21.48	$846.42
2074	46	1.346	1.346	$0.50	$0.67	$26.99	$16.08	$21.64	$868.06	$0.00	$0.00	$0.00	$16.08	$21.64	$868.06
2075	47	1.357	1.357	$0.50	$0.68	$27.67	$16.08	$21.82	$889.88	$0.00	$0.00	$0.00	$16.08	$21.82	$889.88
2076	48	1.367	1.367	$0.50	$0.68	$28.35	$16.08	$21.98	$911.86	$0.00	$0.00	$0.00	$16.08	$21.98	$911.86
2077	49	1.378	1.378	$0.50	$0.69	$29.04	$16.08	$22.16	$934.02	$0.00	$0.00	$0.00	$16.08	$22.16	$934.02
2078	50	1.389	1.389	$0.50	$0.69	$29.74	$16.08	$22.34	$956.36	$0.00	$0.00	$0.00	$16.08	$22.34	$956.36
2079	51	1.399	1.399	$0.50	$0.70	$30.44	$16.08	$22.50	$978.85	$0.00	$0.00	$0.00	$16.08	$22.50	$978.85
2080	52	1.410	1.410	$0.50	$0.71	$31.14	$16.08	$22.67	$1,001.53	$0.00	$0.00	$0.00	$16.08	$22.67	$1,001.53
2081	53	1.420	1.420	$0.50	$0.71	$31.85	$16.08	$22.83	$1,024.36	$0.00	$0.00	$0.00	$16.08	$22.83	$1,024.36
2082	54	1.431	1.431	$0.50	$0.72	$32.57	$16.08	$23.01	$1,047.37	$0.00	$0.00	$0.00	$16.08	$23.01	$1,047.37
2083	55	1.442	1.442	$0.50	$0.72	$33.29	$16.08	$23.19	$1,070.56	$0.00	$0.00	$0.00	$16.08	$23.19	$1,070.56
2084	56	1.453	1.453	$0.50	$0.73	$34.02	$16.08	$23.36	$1,093.92	$0.00	$0.00	$0.00	$16.08	$23.36	$1,093.92
2085	57	1.464	1.464	$0.50	$0.73	$34.75	$16.08	$23.54	$1,117.46	$0.00	$0.00	$0.00	$16.08	$23.54	$1,117.46
2086	58	1.474	1.474	$0.50	$0.74	$35.48	$16.08	$23.70	$1,141.17	$0.00	$0.00	$0.00	$16.08	$23.70	$1,141.17
2087	59	1.485	1.485	$0.50	$0.74	$36.23	$16.08	$23.88	$1,165.04	$0.00	$0.00	$0.00	$16.08	$23.88	$1,165.04
2088	60	1.496	1.496	$0.50	$0.75	$36.97	$16.08	$24.06	$1,189.10	$0.00	$0.00	$0.00	$16.08	$24.06	$1,189.10
2089	61	1.507	1.507	$0.50	$0.75	$37.73	$16.08	$24.23	$1,213.33	$0.00	$0.00	$0.00	$16.08	$24.23	$1,213.33
2090	62	1.518	1.518	$0.50	$0.76	$38.49	$16.08	$24.41	$1,237.74	$0.00	$0.00	$0.00	$16.08	$24.41	$1,237.74
2091	63	1.529	1.529	$0.50	$0.76	$39.25	$16.08	$24.59	$1,262.33	$0.00	$0.00	$0.00	$16.08	$24.59	$1,262.33
2092	64	1.540	1.540	$0.50	$0.77	$40.02	$16.08	$24.76	$1,287.09	$0.00	$0.00	$0.00	$16.08	$24.76	$1,287.09
2093	65	1.552	1.552	$0.50	$0.78	$40.80	$16.08	$24.96	$1,312.05	$0.00	$0.00	$0.00	$16.08	$24.96	$1,312.05
2094	66	1.563	1.563	$0.50	$0.78	$41.58	$16.08	$25.13	$1,337.18	$0.00	$0.00	$0.00	$16.08	$25.13	$1,337.18

Workpaper 011
Pacific Gas and Electric Company
Electrical Undergrounding Program
Core Capability 4: Supporting Formulas
4.2 - Project Timelines

Risk Profile	Circuit Segment	Wildfire Risk (D)	PSPS Risk (E)	EPSS Risk (F)	Outage Risk (G)	Mitigation Effectiveness (H)	Post Mitigation Wildfire Risk (I)	Post Mitigation PSPS Risk (J)	Post Mitigation EPSS Risk (K)	Used and Useful Date[1] (L)	Year Risk Reduction Can be Claimed (M)
Low	ALDER GLEN 1	$1.00	$0.07	$0.02	$0.09	95%	$0.05	$0.00	$0.00	8/8/2029	2029
Medium	BIRCH RIDGE 2	$2.00	$2.82	$3.78	$6.60	95%	$0.10	$0.00	$0.00	9/22/2029	2029
High	CEDAR FALLS 3	$4.00	$6.51	$16.08	$22.59	95%	$0.20	$0.00	$0.00	11/6/2029	2029

Portfolio Project #	Circuit Segment	Wildfire Risk (D)	PSPS Risk (E)	EPSS Risk (F)	Outage Risk (G)	Mitigation Effectiveness (H)	Post Mitigation Wildfire Risk (I)	Post Mitigation PSPS Risk (J)	Post Mitigation EPSS Risk (K)	Used and Useful Date[1] (L)	Year Risk Reduction Can be Claimed (M)
1	ALDER GLEN 1	D1	E1	F1	G1 = E1 + F1	H1	I1	J1	K1	8/8/2029	2029
2	BIRCH RIDGE 2	D2	E2	F2	G2 = E2 + F2	H2	I2	J2	K2	9/22/2029	2029
3	CEDAR FALLS 3	D3	E3	F3	G3 = E3 + F3	H3	I3	J3	K3	11/6/2029	2029
4	DOGWOOD PASS 4	D4	E4	F4	G4 = E4 + F4	H4	I4	J4	K4	12/21/2029	2029
5	ELDER CREEK 5	D5	E5	F5	G5 = E5 + F5	H5	I5	J5	K5	2/4/2030	2030
6	FOX HOLLOW 6	D6	E6	F6	G6 = E6 + F6	H6	I6	J6	K6	3/21/2030	2030
7	GRANITE PEAK 7	D7	E7	F7	G7 = E7 + F7	H7	I7	J7	K7	5/5/2030	2030
8	HAWTHORN FLAT 8	D8	E8	F8	G8 = E8 + F8	H8	I8	J8	K8	6/19/2030	2030
9	INDIGO RIDGE 9	D9	E9	F9	G9 = E9 + F9	H9	I9	J9	K9	8/3/2030	2030
10	JUNIPER POINT 1	D10	E10	F10	G10 = E10 + F10	H10	I10	J10	K10	9/17/2030	2030
11	KELSEY BASIN 2	D11	E11	F11	G11 = E11 + F11	H11	I11	J11	K11	11/1/2030	2030
12	LARCH MEADOW 3	D12	E12	F12	G12 = E12 + F12	H12	I12	J12	K12	12/16/2030	2030
13	MAPLE RIDGE 4	D13	E13	F13	G13 = E13 + F13	H13	I13	J13	K13	1/30/2031	2031
14	NOBLE SUMMIT 5	D14	E14	F14	G14 = E14 + F14	H14	I14	J14	K14	3/16/2031	2031
15	OAK FLATS 6	D15	E15	F15	G15 = E15 + F15	H15	I15	J15	K15	4/30/2031	2031
16	PINE CANYON 7	D16	E16	F16	G16 = E16 + F16	H16	I16	J16	K16	6/14/2031	2031
17	QUAIL RIDGE 8	D17	E17	F17	G17 = E17 + F17	H17	I17	J17	K17	7/29/2031	2031
18	RAVEN ROCK 9	D18	E18	F18	G18 = E18 + F18	H18	I18	J18	K18	9/12/2031	2031
19	SYCAMORE HILL 1	D19	E19	F19	G19 = E19 + F19	H19	I19	J19	K19	10/27/2031	2031
20	TAMARACK RIDGE 2	D20	E20	F20	G20 = E20 + F20	H20	I20	J20	K20	12/11/2031	2031
21	UPLAND GROVE 3	D21	E21	F21	G21 = E21 + F21	H21	I21	J21	K21	1/25/2032	2032
22	VALLEY CREST 4	D22	E22	F22	G22 = E22 + F22	H22	I22	J22	K22	3/10/2032	2032
23	WILLOW BASIN 5	D23	E23	F23	G23 = E23 + F23	H23	I23	J23	K23	4/24/2032	2032
24	YARROW POINT 6	D24	E24	F24	G24 = E24 + F24	H24	I24	J24	K24	6/8/2032	2032
25	ZION RIDGE 7	D25	E25	F25	G25 = E25 + F25	H25	I25	J25	K25	7/23/2032	2032

[1] Used and Useful Date refers to the date the last sub-project will be energized on a given Circuit Segment. Used and Useful Dates are estimates only and can vary as Projects are scoped, planned and constructed.

Electrical Undergrounding Plan (EUP) Discount Rate Scenario Details

1. Weighted Average Cost of Capital (WACC)				Notes
Nominal Pre-Tax CPUC Weighted Average Cost of Capital (WACC)				(1)
	Cost	**Weight**	**Weighted Cost**	
Return on Common Equity	10.28%	52.00%	5.35%	
Return on Preferred Equity	5.52%	0.50%	0.03%	
Return on Long-Term Debt	4.80%	47.50%	2.28%	
Nominal Pre-Tax WACC			**7.65%**	
Income Tax Rates				
Federal Income Tax Rate			21.00%	(2)
State Income Tax Rate			8.84%	(3)
Combined Income Tax Rate			**27.98%**	(4)
Nominal After-Tax CPUC WACC				
	Cost	**Weight**	**Weighted Cost**	
Return on Common Equity	10.28%	52.00%	5.35%	
Return on Preferred Equity	5.52%	0.50%	0.03%	
Return on Long-Term Debt	3.46%	47.50%	1.64%	
Nominal After-Tax WACC (ATWACC)			**7.02%**	
Round to the nearest			0.50%	(5)
Rounded Nominal ATWACC			**7.00%**	
2. Societal Discount Rate				
Social Rate of Time Preference (SRTP)			**2.00%**	(6)
3. Hybrid Discount Rate (for safety and reliability terms)				
Effective Average Inflation Rate				(7)
2014 Annual Average CPI			246.055	
2024 Annual Average CPI			341.951	
10-year Effective Average Inflation Rate			**3.35%**	
Effective Average Per-Capita Real Growth Rate of Wages				(8) (9) (10) (11)
2014 Mean Annual Wage			$54,920	
2024 Mean Annual Wage			$81,804	
10-year Effective Average Per-Capita Real Growth Rate of Wages			**0.7%**	
Hybrid Discount Rate for Safety and Reliability terms in BCR			**6.1%**	(12) (13)

Notes:

(1) Cost of Capital from CPUC D.24-10-008. https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M544/K150/544150643.PDF

(2) Federal Income Tax data is taken from IRS Publication 542, Corporations: https://www.irs.gov/pub/irs-pdf/p542.pdf

(3) State Income Tax data is taken from California Franchise Tax Board, Business tax rates: https://www.ftb.ca.gov/file/business/tax-rates.html

(4) Assume State Taxes are deductible from Federal Taxable Income

(5) PG&E's 2024 RAMP Application, PG&E-2, pg. 2-40: https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/safety-policy-division/reports/2024-ramp-application-pge051524.pdf

(6) Methodology from the CPUC on how to apply SRTP is discussed in the Public Advocates Office, Informal Comments on Questions for Stakeholders Regarding the CPUC SB-884 Guidelines (Nov. 12, 2024), section II.D, available at: https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/safety-policy-division/meeting-documents/informal-responses-to-postworkshop-questions.pdf.
- Social Rate of Time Preference (SRTP) values from U.S. Office of Management and Budget (OMB) Circular A-4: https://www.reginfo.gov/public/jsp/EO/fedRegReview/CircularA4Appendix.pdf
- Social Rate of Time Preference (SRTP) values can also be found at the Direct White House website: https://www.whitehouse.gov/wp-content/uploads/2023/11/CircularA-4DiscountHistory.pdf

(7) Annual Average CPI is from: https://dir.ca.gov/oprl/CPI/CPICalculator/CpiCalculator.aspx
Please note: at the time the WBCA was initially developed the latest year with annual average CPI was 2024 (As of 8/7/25)

(8) Employment and Wage Statistics data encompassing 2016-2025: https://labormarketinfo.edd.ca.gov/data/oes-employment-and-wages.html#DashB: https://labormarketinfo.edd.ca.gov/data/oes-employment-and-wages.html#DashB

(9) Employment and Wage Statistics data encompassing 2006-2015 data: https://labormarketinfo.edd.ca.gov/data/OES_Employment_and_Wages_2006-2015.html

(10) Employment and Wage Statistics data uses 1st Quarter State of California Excel file for 2024 wage data and 2015 1st Quarter State of California Excel file for 2014 wage data (to align to CPI years)

(11) Employment and Wage Statistics data uses estimates encompassing all occupations in the two attachments noted in footnotes 8 and 9. This is represented as code "00-0000" in the "SOC Code" column and "Total all occupations" in the "Occupation Field" column. The resulting value is taken from the 'Mean Annual Wage' column

(12) The methodology for calculating the hybrid discount rate is detailed in California Public Utilities Commission (CPUC). Decision 24-05-064: Phase 3 Decision, Rulemaking 20-07-013, May 30, 2024, pgs. 103-104 which is available here: https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M533/K099/533099839.PDF)

(13) For Hybrid Discount Rate Scenarios, the Hybrid discount rate is applied to Safety and Reliability components in numerator, while WACC is applied to Financial components of numerator and denominator as detailed in *California Public Utilities Commission (CPUC). Decision 24-05-064: Phase 3 Decision, Rulemaking 20-07-013, May 30, 2024, p. 103 which is available here:* https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M533/K099/533099839.PDF)

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP012

CORE CAPABILITY 5: SUPPORTING FORMULAS

Workpaper 012
Pacific Gas and Electric Company
Electrical Undergrounding Program
Core Capability 5: Supporting Formulas

Core Capability 5 Supporting Formulas

Circuit Segment (B)	Circuit Segment Overhead Miles Removed (C)	Wildfire Risk (D)	PSPS Risk (E)	EPSS Risk (F)	Outage Risk (G)	Sub-Project Mitigation (H)	Circuit Segment and Mitigation Specific Wild Fire Mitigation Effectiveness (I)	Mitigation Specific PSPS Risk Mitigation Effectiveness (J)	Mitigation Specific EPSS Risk Mitigation Effectiveness (K)	Sub-Project Overhead Miles Removed (L)	Percentage of Circuit Segment Mitigated by Sub-Project (M)	Sub-Project Wildfire Risk (N)	Sub-Project PSPS Risk (O)	Sub-Project EPSS Risk (P)	Sub-Project Outage Risk (Q)	Sub Project Post Mitigation Wildfire Risk (R)	Circuit Segment Post Mitigation Wildfire Risk (S)	Sub-Project Post Mitigation PSPS Risk (T)	Circuit Segment Post Mitigation PSPS Risk (U)	Sub-Project Post Mitigation EPSS Risk (V)	Circuit Segment Post Mitigation EPSS Risk (W)	Sub-Project Post Mitigation Outage Risk (X)	Circuit Segment Post Mitigation Outage Risk (Y)	Energization Date (Z)	Year Risk Reduction can be Claimed (AA)
						Undergrounding Primary	I1	J1	K1	L1	M1 = L1 / C	N1 = M1 * D1	O1 = M1 * E1	P1 = M1 * F1	Q1 = O1 + P1	R1 = N1 * (1 - I1)		T1 = O1 * (1 - J1)		V1 = P1 * (1 - K1)		X1 = T1 + V1		8/8/2029	2029
Kangaroo Flats 1	C	D	E	F	G = E + F	Undergrounding Primary	I2	J2	K2	L2	M2 = L2 / C	N2 = M2 * D2	O2 = M2 * E2	P2 = M2 * F2	Q2 = O2 + P2	R2 = N2 * (1 - I2)	S = R1 + R2 + R3	T2 = O2 * (1 - J2)	U = T1 + T2 + T3	V2 = P2 * (1 - K2)	W = V1 + V2 + V3	X2 = T2 + V2	Y = X1 + X2 + X3	12/2/2028	2028
						Overhead Hardening	I3	J3	K3	L3	M3 = L3 / C	N3 = M3 * D3	O3 = M3 * E3	P3 = M3 * F3	Q3 = O3 + P3	R3 = N3 * (1 - I3)		T3 = O3 * (1 - J3)		V3 = P3 * (1 - K3)		X3 = T3 + V3		9/21/2030	2030

*In this scenario, PG&E assumes this exemplar Circuit Segment is crossing 2 County lines, therefore there are 2 Undergrounding Primary Sub-Projects
**The methodology used to assess risk reduction for Fire Rebuild Projects is consistent with the methodology applied to standard EUP projects

Low Risk Scenario

Circuit Segment (B)	Circuit Segment Overhead Miles Removed (C)	Wildfire Risk (D)	PSPS Risk (E)	EPSS Risk (F)	Outage Risk (G)	Sub-Project Mitigation (H)	Circuit Segment and Mitigation Specific Wild Fire Mitigation Effectiveness (I)	Mitigation Specific PSPS Risk Mitigation Effectiveness (J)	Mitigation Specific EPSS Risk Mitigation Effectiveness (K)	Sub-Project Overhead Miles Removed (L)	Percentage of Circuit Segment Mitigated by Sub-Project (M)	Sub-Project Wildfire Risk (N)	Sub-Project PSPS Risk (O)	Sub-Project EPSS Risk (P)	Sub-Project Outage Risk (Q)	Sub Project Post Mitigation Wildfire Risk (R)	Circuit Segment Post Mitigation Wildfire Risk (S)	Sub-Project Post Mitigation PSPS Risk (T)	Circuit Segment Post Mitigation PSPS Risk (U)	Sub-Project Post Mitigation EPSS Risk (V)	Circuit Segment Post Mitigation EPSS Risk (W)	Sub-Project Post Mitigation Outage Risk (X)	Circuit Segment Post Mitigation Outage Risk (Y)	Energization Date (Z)	Year Risk Reduction can be Claimed (AA)
						Undergrounding Primary	95%	100%	100%	0.35	35%	$0.35	$0.02	$0.007	$0.03	$0.02		$0.00		$0.000		$0.00		8/8/2029	2029
Alder Glen 1	1	$1.00	$0.07	$0.02	$0.09	Undergrounding Primary	95%	100%	100%	0.40	40%	$0.40	$0.03	$0.008	$0.04	$0.02	$0.18	$0.00	$0.02	$0.000	$0.002	$0.00	$0.02	12/2/2028	2028
						Overhead Hardening	45%	0%	52%	0.25	25%	$0.25	$0.02	$0.005	$0.02	$0.14		$0.02		$0.002		$0.02		9/21/2030	2030

The figures in this table are examples only and do not represent actual data

Medium Risk Scenario

Circuit Segment (B)	Circuit Segment Overhead Miles Removed (C)	Wildfire Risk (D)	PSPS Risk (E)	EPSS Risk (F)	Outage Risk (G)	Sub-Project Mitigation (H)	Circuit Segment and Mitigation Specific Wild Fire Mitigation Effectiveness (I)	Mitigation Specific PSPS Risk Mitigation Effectiveness (J)	Mitigation Specific EPSS Risk Mitigation Effectiveness (K)	Sub-Project Overhead Miles Removed (L)	Percentage of Circuit Segment Mitigated by Sub-Project (M)	Sub-Project Wildfire Risk (N)	Sub-Project PSPS Risk (O)	Sub-Project EPSS Risk (P)	Sub-Project Outage Risk (Q)	Sub Project Post Mitigation Wildfire Risk (R)	Circuit Segment Post Mitigation Wildfire Risk (S)	Sub-Project Post Mitigation PSPS Risk (T)	Circuit Segment Post Mitigation PSPS Risk (U)	Sub-Project Post Mitigation EPSS Risk (V)	Circuit Segment Post Mitigation EPSS Risk (W)	Sub-Project Post Mitigation Outage Risk (X)	Circuit Segment Post Mitigation Outage Risk (Y)	Energization Date (Z)	Year Risk Reduction can be Claimed (AA)
						Undergrounding Primary	95%	100%	100%	0.35	35%	$0.70	$0.99	$1.32	$2.31	$0.04		$0.00		$0.000		$0.00		8/8/2029	2029
Birch Ridge 2	1	$2.00	$2.82	$3.78	$6.60	Undergrounding Primary	95%	100%	100%	0.40	40%	$0.80	$1.13	$1.51	$2.64	$0.04	$0.35	$0.00	$0.71	$0.000	$0.45	$0.00	$1.16	12/2/2028	2028
						Overhead Hardening	45%	0%	52%	0.25	25%	$0.50	$0.71	$0.95	$1.65	$0.28		$0.71		$0.454		$1.16		9/21/2030	2030

The figures in this table are examples only and do not represent actual data

High Risk Scenario

Circuit Segment (B)	Circuit Segment Overhead Miles Removed (C)	Wildfire Risk (D)	PSPS Risk (E)	EPSS Risk (F)	Outage Risk (G)	Sub-Project Mitigation (H)	Circuit Segment and Mitigation Specific Wild Fire Mitigation Effectiveness (I)	Mitigation Specific PSPS Risk Mitigation Effectiveness (J)	Mitigation Specific EPSS Risk Mitigation Effectiveness (K)	Sub-Project Overhead Miles Removed (L)	Percentage of Circuit Segment Mitigated by Sub-Project (M)	Sub-Project Wildfire Risk (N)	Sub-Project PSPS Risk (O)	Sub-Project EPSS Risk (P)	Sub-Project Outage Risk (Q)	Sub Project Post Mitigation Wildfire Risk (R)	Circuit Segment Post Mitigation Wildfire Risk (S)	Sub-Project Post Mitigation PSPS Risk (T)	Circuit Segment Post Mitigation PSPS Risk (U)	Sub-Project Post Mitigation EPSS Risk (V)	Circuit Segment Post Mitigation EPSS Risk (W)	Sub-Project Post Mitigation Outage Risk (X)	Circuit Segment Post Mitigation Outage Risk (Y)	Energization Date (Z)	Year Risk Reduction can be Claimed (AA)
						Undergrounding Primary	95%	100%	100%	0.35	35%	$1.40	$2.28	$5.63	$7.91	$0.07		$0.00		$0.000		$0.00		8/8/2029	2029
Cedar Falls 3	1	$4.00	$6.51	$16.08	$22.59	Undergrounding Primary	95%	100%	100%	0.40	40%	$1.60	$2.60	$6.43	$9.04	$0.08	$0.70	$0.00	$1.63	$0.000	$1.93	$0.00	$3.56	12/2/2028	2028
						Overhead Hardening	45%	0%	52%	0.25	25%	$1.00	$1.63	$4.02	$5.65	$0.55		$1.63		$1.930		$3.56		9/21/2030	2030

The figures in this table are examples only and do not represent actual data

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP013

CORE CAPABILITY 6: SUPPORTING FORMULAS

Workpaper 013
Pacific Gas and Electric Company
Electrical Undergrounding Program
Core Capability 6: Supporting Formulas
Directory

Sheet	Section of Core Capability 4 Section Addressed
6.3 - Baseline Risk	To establish an initial Baseline, the Large Electrical Corporation must model the risk landscape assuming that no EUP Undergrounding Projects are constructed. This Baseline modeling must include any non-EUP wildfire mitigation activity in Tier 2 or 3 HFTDs. In subsequent Baselines, the Large Electrical Corporation must include activity outside of the EUP program that the Large Electrical Corporation has initiated or completed since the establishment of the previous Baseline.
6.5 - Project Timelines	To establish an initial Baseline, the Large Electrical Corporation must model the risk landscape assuming that no EUP Undergrounding Projects are constructed. This Baseline modeling must include any non-EUP wildfire mitigation activity in Tier 2 or 3 HFTDs. In subsequent Baselines, the Large Electrical Corporation must include activity outside of the EUP program that the Large Electrical Corporation has initiated or completed since the establishment of the previous Baseline. This modeling will attempt to account for climate change. Baselines must be measured and reported at the same cadence as other risk model landscape components at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 35, 40, 45, 50, and 55 years. Each Baseline must indicate the version of the modeling system and the model calibration(s) that were used to evaluate it. The Baselines must also indicate the date the Baseline was created, and the naming scheme of the Baselines must be consistent across the lifetime of the EUP. Any comparison of an Undergrounding Project or Alternative Mitigation to a Baseline must indicate what Baseline the comparison is being made to. For Project-Level comparisons, such as the evaluation of the Project-Level Standard, the Baseline also establishes the pre-mitigation Circuit Segment length and alignment on which to make the future comparisons.

Workpaper 013
Pacific Gas and Electric Company
Electrical Undergrounding Program
Core Capability 6: Supporting Formulas
Core Capability 6.3

Core Capability 6.3: Develop a system to record Baselines and historical model calibrations. A new Baseline must be recorded at least once per calendar year. This new Baseline must account for all physical changes to the electrical distribution infrastructure performed during that year, through the EUP or any other mechanism

Electric Undergrounding Plan
Core Capability 6.3 Supporting Formulas

Wildfire Risk Example Calculations

			Year 1											Year 2*	
Portfolio Project # (B)	Circuit Segment (C)	Circuit Segment Miles (D)	Baseline Wildfire Risk (E)	Mileage Addressed by UG (F)	Mileage Addressed by OH (G)	Mileage Addressed by Line Removal (H)	UG Wildfire Mitigation Effectiveness Values (I)	OH Wildfire Mitigation Effectiveness Values (J)	Line Removal Wildfire Mitigation Effectiveness (K)	Wildfire Risk Addressed by UG (L)	Wildfire Risk Addressed by OH (M)	Wildfire Risk Addressed by LR (N)	Total Wildfire Risk Addressed (O)	Total Residual Wildfire Risk (P)	Year 2 Wildfire Climate Factor (Q)	Year 2: New Baseline Wildfire Risk (R)
Low Risk	ALDER GLEN 1	10.00	$1.00	6.00	3.00	1.00	95%	70%	95%	$0.57	$0.21	$0.10	$0.88	$0.13	1.10	$0.14
Medium Risk	BIRCH RIDGE 2	10.00	$2.00	6.00	3.00	1.00	95%	70%	95%	$1.14	$0.42	$0.19	$1.75	$0.25	1.10	$0.28
High Risk	CEDAR FALLS 3	10.00	$4.00	6.00	3.00	1.00	95%	70%	95%	$2.28	$0.84	$0.38	$3.50	$0.50	1.10	$0.55

*Baseline Wildfire Risk examples used in this core capabilitity reflect Wildfire Risk with PSPS and EPSS active. For more information on how this calculation occurs, please refer to WP010 (Core Capability 3).

Wildfire Risk Formulas

			Year 1											Year 2*	
Portfolio Project # (B)	Circuit Segment (C)	Circuit Segment Miles (D)	Baseline Wildfire Risk (E)	Mileage Addressed by UG (F)	Mileage Addressed by OH (G)	Mileage Addressed by Line Removal (H)	UG Wildfire Mitigation Effectiveness Values (I)	OH Wildfire Mitigation Effectiveness Values (J)	Line Removal Wildfire Mitigation Effectiveness (K)	Wildfire Risk Addressed by UG (L)	Wildfire Risk Addressed by OH (M)	Wildfire Risk Addressed by LR (N)	Total Wildfire Risk Addressed (O)	Total Residual Wildfire Risk (P)	Year 2 Wildfire Climate Factor (Q)	Year 2: New Baseline Wildfire Risk (R)
1	ALDER GLEN 1	D1	E1	F1	G1	H1	I1	J1	K1	L1 = (E1 / D1) * F1 * I1	M1 = (E1 / D1) * G1 * J1	N1 = (E1 / D1) * H1 * K1	O1 = L1 + M1 + N1	P1 = E1 - O1	Q1	R1 = P1 * Q1
2	BIRCH RIDGE 2	D2	E2	F2	G2	H2	I2	J2	K2	L2 = (E2 / D2) * F2 * I2	M2 = (E2 / D2) * G2 * J2	N2 = (E2 / D2) * H2 * K2	O2 = L2 + M2 + N2	P2 = E2 - O2	Q2	R2 = P2 * Q2
3	CEDAR FALLS 3	D3	E3	F3	G3	H3	I3	J3	K3	L3 = (E3 / D3) * F3 * I3	M3 = (E3 / D3) * G3 * J3	N3 = (E3 / D3) * H3 * K3	O3 = L3 + M3 + N3	P3 = E3 - O3	Q3	R3 = P3 * Q3
4	DOGWOOD PASS 4	D4	E4	F4	G4	H4	I4	J4	K4	L4 = (E4 / D4) * F4 * I4	M4 = (E4 / D4) * G4 * J4	N4 = (E4 / D4) * H4 * K4	O4 = L4 + M4 + N4	P4 = E4 - O4	Q4	R4 = P4 * Q4
5	ELDER CREEK 5	D5	E5	F5	G5	H5	I5	J5	K5	L5 = (E5 / D5) * F5 * I5	M5 = (E5 / D5) * G5 * J5	N5 = (E5 / D5) * H5 * K5	O5 = L5 + M5 + N5	P5 = E5 - O5	Q5	R5 = P5 * Q5
6	FOX HOLLOW 6	D6	E6	F6	G6	H6	I6	J6	K6	L6 = (E6 / D6) * F6 * I6	M6 = (E6 / D6) * G6 * J6	N6 = (E6 / D6) * H6 * K6	O6 = L6 + M6 + N6	P6 = E6 - O6	Q6	R6 = P6 * Q6
7	GRANITE PEAK 7	D7	E7	F7	G7	H7	I7	J7	K7	L7 = (E7 / D7) * F7 * I7	M7 = (E7 / D7) * G7 * J7	N7 = (E7 / D7) * H7 * K7	O7 = L7 + M7 + N7	P7 = E7 - O7	Q7	R7 = P7 * Q7
8	HAWTHORN FLAT 8	D8	E8	F8	G8	H8	I8	J8	K8	L8 = (E8 / D8) * F8 * I8	M8 = (E8 / D8) * G8 * J8	N8 = (E8 / D8) * H8 * K8	O8 = L8 + M8 + N8	P8 = E8 - O8	Q8	R8 = P8 * Q8
9	INDIGO RIDGE 9	D9	E9	F9	G9	H9	I9	J9	K9	L9 = (E9 / D9) * F9 * I9	M9 = (E9 / D9) * G9 * J9	N9 = (E9 / D9) * H9 * K9	O9 = L9 + M9 + N9	P9 = E9 - O9	Q9	R9 = P9 * Q9
10	JUNIPER POINT 1	D10	E10	F10	G10	H10	I10	J10	K10	L10 = (E10 / D10) * F10 * I10	M10 = (E10 / D10) * G10 * J10	N10 = (E10 / D10) * H10 * K10	O10 = L10 + M10 + N10	P10 = E10 - O10	Q10	R10 = P10 * Q10
11	KELSEY BASIN 2	D11	E11	F11	G11	H11	I11	J11	K11	L11 = (E11 / D11) * F11 * I11	M11 = (E11 / D11) * G11 * J11	N11 = (E11 / D11) * H11 * K11	O11 = L11 + M11 + N11	P11 = E11 - O11	Q11	R11 = P11 * Q11
12	LARCH MEADOW 3	D12	E12	F12	G12	H12	I12	J12	K12	L12 = (E12 / D12) * F12 * I12	M12 = (E12 / D12) * G12 * J12	N12 = (E12 / D12) * H12 * K12	O12 = L12 + M12 + N12	P12 = E12 - O12	Q12	R12 = P12 * Q12
13	MAPLE RIDGE 4	D13	E13	F13	G13	H13	I13	J13	K13	L13 = (E13 / D13) * F13 * I13	M13 = (E13 / D13) * G13 * J13	N13 = (E13 / D13) * H13 * K13	O13 = L13 + M13 + N13	P13 = E13 - O13	Q13	R13 = P13 * Q13
14	NOBLE SUMMIT 5	D14	E14	F14	G14	H14	I14	J14	K14	L14 = (E14 / D14) * F14 * I14	M14 = (E14 / D14) * G14 * J14	N14 = (E14 / D14) * H14 * K14	O14 = L14 + M14 + N14	P14 = E14 - O14	Q14	R14 = P14 * Q14
15	OAK FLATS 6	D15	E15	F15	G15	H15	I15	J15	K15	L15 = (E15 / D15) * F15 * I15	M15 = (E15 / D15) * G15 * J15	N15 = (E15 / D15) * H15 * K15	O15 = L15 + M15 + N15	P15 = E15 - O15	Q15	R15 = P15 * Q15
16	PINE CANYON 7	D16	E16	F16	G16	H16	I16	J16	K16	L16 = (E16 / D16) * F16 * I16	M16 = (E16 / D16) * G16 * J16	N16 = (E16 / D16) * H16 * K16	O16 = L16 + M16 + N16	P16 = E16 - O16	Q16	R16 = P16 * Q16
17	QUAIL RIDGE 8	D17	E17	F17	G17	H17	I17	J17	K17	L17 = (E17 / D17) * F17 * I17	M17 = (E17 / D17) * G17 * J17	N17 = (E17 / D17) * H17 * K17	O17 = L17 + M17 + N17	P17 = E17 - O17	Q17	R17 = P17 * Q17
18	RAVEN ROCK 9	D18	E18	F18	G18	H18	I18	J18	K18	L18 = (E18 / D18) * F18 * I18	M18 = (E18 / D18) * G18 * J18	N18 = (E18 / D18) * H18 * K18	O18 = L18 + M18 + N18	P18 = E18 - O18	Q18	R18 = P18 * Q18
19	SYCAMORE HILL 1	D19	E19	F19	G19	H19	I19	J19	K19	L19 = (E19 / D19) * F19 * I19	M19 = (E19 / D19) * G19 * J19	N19 = (E19 / D19) * H19 * K19	O19 = L19 + M19 + N19	P19 = E19 - O19	Q19	R19 = P19 * Q19
20	TAMARACK RIDGE 2	D20	E20	F20	G20	H20	I20	J20	K20	L20 = (E20 / D20) * F20 * I20	M20 = (E20 / D20) * G20 * J20	N20 = (E20 / D20) * H20 * K20	O20 = L20 + M20 + N20	P20 = E20 - O20	Q20	R20 = P20 * Q20
21	UPLAND GROVE 3	D21	E21	F21	G21	H21	I21	J21	K21	L21 = (E21 / D21) * F21 * I21	M21 = (E21 / D21) * G21 * J21	N21 = (E21 / D21) * H21 * K21	O21 = L21 + M21 + N21	P21 = E21 - O21	Q21	R21 = P21 * Q21
22	VALLEY CREST 4	D22	E22	F22	G22	H22	I22	J22	K22	L22 = (E22 / D22) * F22 * I22	M22 = (E22 / D22) * G22 * J22	N22 = (E22 / D22) * H22 * K22	O22 = L22 + M22 + N22	P22 = E22 - O22	Q22	R22 = P22 * Q22
23	WILLOW BASIN 5	D23	E23	F23	G23	H23	I23	J23	K23	L23 = (E23 / D23) * F23 * I23	M23 = (E23 / D23) * G23 * J23	N23 = (E23 / D23) * H23 * K23	O23 = L23 + M23 + N23	P23 = E23 - O23	Q23	R23 = P23 * Q23
24	YARROW POINT 6	D24	E24	F24	G24	H24	I24	J24	K24	L24 = (E24 / D24) * F24 * I24	M24 = (E24 / D24) * G24 * J24	N24 = (E24 / D24) * H24 * K24	O24 = L24 + M24 + N24	P24 = E24 - O24	Q24	R24 = P24 * Q24
25	ZION RIDGE 7	D25	E25	F25	G25	H25	I25	J25	K25	L25 = (E25 / D25) * F25 * I25	M25 = (E25 / D25) * G25 * J25	N25 = (E25 / D25) * H25 * K25	O25 = L25 + M25 + N25	P25 = E25 - O25	Q25	R25 = P25 * Q25

*The baselining of risk occurs annually and follows the same process from year-to-year, where the new baseline Circuit Segment Risk of Year N is the residual risk of the prior year.

Workpaper 013
Pacific Gas and Electric Company
Electrical Undergrounding Program
Core Capability 6: Supporting Formulas
Core Capability 6.3

EPSS Formulas			Year 1											Year 2*	
Portfolio Project # (V)	Circuit Segment (W)	Circuit Segment Miles (X)	Baseline EPSS Risk (Y)	Mileage Addressed by UG (Z)	Mileage Addressed by OH (AA)	Mileage Addressed by Line Removal (AB)	UG EPSS Mitigation Effectiveness Values (AC)	OH EPSS Mitigation Effectiveness Values (AD)	Line Removal EPSS Mitigation Effectiveness (AE)	EPSS Risk Addressed by UG (AF)	EPSS Risk Addressed by OH (AG)	EPSS Risk Addressed by LR (AH)	Total EPSS Risk Addressed (AI)	Total Residual EPSS Risk (AJ)	Year 2 EPSS Climate Factor (AK)	Year 2: New Baseline EPSS Risk (AL)
Low Risk	ALDER GLEN 1	10.00	$0.02	6.00	3.00	1.00	100%	52%	100%	$0.01	$0.00	$0.00	$0.02	$0.00	1.12	$0.00
Medium Risk	BIRCH RIDGE 2	10.00	$3.78	6.00	3.00	1.00	100%	52%	100%	$2.27	$0.59	$0.38	$3.24	$0.54	1.12	$0.61
High Risk	CEDAR FALLS 3	10.00	$16.08	6.00	3.00	1.00	100%	52%	100%	$9.65	$2.51	$1.61	$13.76	$2.32	1.12	$2.59

EPSS Formulas			Year 1											Year 2*	
Portfolio Project # (V)	Circuit Segment (W)	Circuit Segment Miles (X)	Baseline EPSS Risk (Y)	Mileage Addressed by UG (Z)	Mileage Addressed by OH (AA)	Mileage Addressed by Line Removal (AB)	UG EPSS Mitigation Effectiveness Values (AC)	OH EPSS Mitigation Effectiveness Values (AD)	Line Removal EPSS Mitigation Effectiveness (AE)	EPSS Risk Addressed by UG (AF)	EPSS Risk Addressed by OH (AG)	EPSS Risk Addressed by LR (AH)	Total EPSS Risk Addressed (AI)	Total Residual EPSS Risk (AJ)	Year 2 EPSS Climate Factor (AK)	Year 2: New Baseline EPSS Risk (AL)
1	ALDER GLEN 1	X1	Y1	Z1	AA1	AB1	AC1	AD1	AE1	AF1 = (Y1 / X1) * Z1 * AC1	AG1 = (Y1 / X1) * AA1 * AD1	AH1 = (Y1 / X1) * AB1 * AE1	AI1 = AF1 + AG1 + AH1	AJ1 = Y1 - AI1	AK1	AL1 = AJ1 * AK1
2	BIRCH RIDGE 2	X2	Y2	Z2	AA2	AB2	AC2	AD2	AE2	AF2 = (Y2 / X2) * Z2 * AC2	AG2 = (Y2 / X2) * AA2 * AD2	AH2 = (Y2 / X2) * AB2 * AE2	AI2 = AF2 + AG2 + AH2	AJ2 = Y2 - AI2	AK2	AL2 = AJ2 * AK2
3	CEDAR FALLS 3	X3	Y3	Z3	AA3	AB3	AC3	AD3	AE3	AF3 = (Y3 / X3) * Z3 * AC3	AG3 = (Y3 / X3) * AA3 * AD3	AH3 = (Y3 / X3) * AB3 * AE3	AI3 = AF3 + AG3 + AH3	AJ3 = Y3 - AI3	AK3	AL3 = AJ3 * AK3
4	DOGWOOD PASS 4	X4	Y4	Z4	AA4	AB4	AC4	AD4	AE4	AF4 = (Y4 / X4) * Z4 * AC4	AG4 = (Y4 / X4) * AA4 * AD4	AH4 = (Y4 / X4) * AB4 * AE4	AI4 = AF4 + AG4 + AH4	AJ4 = Y4 - AI4	AK4	AL4 = AJ4 * AK4
5	ELDER CREEK 5	X5	Y5	Z5	AA5	AB5	AC5	AD5	AE5	AF5 = (Y5 / X5) * Z5 * AC5	AG5 = (Y5 / X5) * AA5 * AD5	AH5 = (Y5 / X5) * AB5 * AE5	AI5 = AF5 + AG5 + AH5	AJ5 = Y5 - AI5	AK5	AL5 = AJ5 * AK5
6	FOX HOLLOW 6	X6	Y6	Z6	AA6	AB6	AC6	AD6	AE6	AF6 = (Y6 / X6) * Z6 * AC6	AG6 = (Y6 / X6) * AA6 * AD6	AH6 = (Y6 / X6) * AB6 * AE6	AI6 = AF6 + AG6 + AH6	AJ6 = Y6 - AI6	AK6	AL6 = AJ6 * AK6
7	GRANITE PEAK 7	X7	Y7	Z7	AA7	AB7	AC7	AD7	AE7	AF7 = (Y7 / X7) * Z7 * AC7	AG7 = (Y7 / X7) * AA7 * AD7	AH7 = (Y7 / X7) * AB7 * AE7	AI7 = AF7 + AG7 + AH7	AJ7 = Y7 - AI7	AK7	AL7 = AJ7 * AK7
8	HAWTHORN FLAT 8	X8	Y8	Z8	AA8	AB8	AC8	AD8	AE8	AF8 = (Y8 / X8) * Z8 * AC8	AG8 = (Y8 / X8) * AA8 * AD8	AH8 = (Y8 / X8) * AB8 * AE8	AI8 = AF8 + AG8 + AH8	AJ8 = Y8 - AI8	AK8	AL8 = AJ8 * AK8
9	INDIGO RIDGE 9	X9	Y9	Z9	AA9	AB9	AC9	AD9	AE9	AF9 = (Y9 / X9) * Z9 * AC9	AG9 = (Y9 / X9) * AA9 * AD9	AH9 = (Y9 / X9) * AB9 * AE9	AI9 = AF9 + AG9 + AH9	AJ9 = Y9 - AI9	AK9	AL9 = AJ9 * AK9
10	JUNIPER POINT 1	X10	Y10	Z10	AA10	AB10	AC10	AD10	AE10	AF10 = (Y10 / X10) * Z10 * AC10	AG10 = (Y10 / X10) * AA10 * AD10	AH10 = (Y10 / X10) * AB10 * AE10	AI10 = AF10 + AG10 + AH10	AJ10 = Y10 - AI10	AK10	AL10 = AJ10 * AK10
11	KELSEY BASIN 2	X11	Y11	Z11	AA11	AB11	AC11	AD11	AE11	AF11 = (Y11 / X11) * Z11 * AC11	AG11 = (Y11 / X11) * AA11 * AD11	AH11 = (Y11 / X11) * AB11 * AE11	AI11 = AF11 + AG11 + AH11	AJ11 = Y11 - AI11	AK11	AL11 = AJ11 * AK11
12	LARCH MEADOW 3	X12	Y12	Z12	AA12	AB12	AC12	AD12	AE12	AF12 = (Y12 / X12) * Z12 * AC12	AG12 = (Y12 / X12) * AA12 * AD12	AH12 = (Y12 / X12) * AB12 * AE12	AI12 = AF12 + AG12 + AH12	AJ12 = Y12 - AI12	AK12	AL12 = AJ12 * AK12
13	MAPLE RIDGE 4	X13	Y13	Z13	AA13	AB13	AC13	AD13	AE13	AF13 = (Y13 / X13) * Z13 * AC13	AG13 = (Y13 / X13) * AA13 * AD13	AH13 = (Y13 / X13) * AB13 * AE13	AI13 = AF13 + AG13 + AH13	AJ13 = Y13 - AI13	AK13	AL13 = AJ13 * AK13
14	NOBLE SUMMIT 5	X14	Y14	Z14	AA14	AB14	AC14	AD14	AE14	AF14 = (Y14 / X14) * Z14 * AC14	AG14 = (Y14 / X14) * AA14 * AD14	AH14 = (Y14 / X14) * AB14 * AE14	AI14 = AF14 + AG14 + AH14	AJ14 = Y14 - AI14	AK14	AL14 = AJ14 * AK14
15	OAK FLATS 6	X15	Y15	Z15	AA15	AB15	AC15	AD15	AE15	AF15 = (Y15 / X15) * Z15 * AC15	AG15 = (Y15 / X15) * AA15 * AD15	AH15 = (Y15 / X15) * AB15 * AE15	AI15 = AF15 + AG15 + AH15	AJ15 = Y15 - AI15	AK15	AL15 = AJ15 * AK15
16	PINE CANYON 7	X16	Y16	Z16	AA16	AB16	AC16	AD16	AE16	AF16 = (Y16 / X16) * Z16 * AC16	AG16 = (Y16 / X16) * AA16 * AD16	AH16 = (Y16 / X16) * AB16 * AE16	AI16 = AF16 + AG16 + AH16	AJ16 = Y16 - AI16	AK16	AL16 = AJ16 * AK16
17	QUAIL RIDGE 8	X17	Y17	Z17	AA17	AB17	AC17	AD17	AE17	AF17 = (Y17 / X17) * Z17 * AC17	AG17 = (Y17 / X17) * AA17 * AD17	AH17 = (Y17 / X17) * AB17 * AE17	AI17 = AF17 + AG17 + AH17	AJ17 = Y17 - AI17	AK17	AL17 = AJ17 * AK17
18	RAVEN ROCK 9	X18	Y18	Z18	AA18	AB18	AC18	AD18	AE18	AF18 = (Y18 / X18) * Z18 * AC18	AG18 = (Y18 / X18) * AA18 * AD18	AH18 = (Y18 / X18) * AB18 * AE18	AI18 = AF18 + AG18 + AH18	AJ18 = Y18 - AI18	AK18	AL18 = AJ18 * AK18
19	SYCAMORE HILL 1	X19	Y19	Z19	AA19	AB19	AC19	AD19	AE19	AF19 = (Y19 / X19) * Z19 * AC19	AG19 = (Y19 / X19) * AA19 * AD19	AH19 = (Y19 / X19) * AB19 * AE19	AI19 = AF19 + AG19 + AH19	AJ19 = Y19 - AI19	AK19	AL19 = AJ19 * AK19
20	TAMARACK RIDGE 2	X20	Y20	Z20	AA20	AB20	AC20	AD20	AE20	AF20 = (Y20 / X20) * Z20 * AC20	AG20 = (Y20 / X20) * AA20 * AD20	AH20 = (Y20 / X20) * AB20 * AE20	AI20 = AF20 + AG20 + AH20	AJ20 = Y20 - AI20	AK20	AL20 = AJ20 * AK20
21	UPLAND GROVE 3	X21	Y21	Z21	AA21	AB21	AC21	AD21	AE21	AF21 = (Y21 / X21) * Z21 * AC21	AG21 = (Y21 / X21) * AA21 * AD21	AH21 = (Y21 / X21) * AB21 * AE21	AI21 = AF21 + AG21 + AH21	AJ21 = Y21 - AI21	AK21	AL21 = AJ21 * AK21
22	VALLEY CREST 4	X22	Y22	Z22	AA22	AB22	AC22	AD22	AE22	AF22 = (Y22 / X22) * Z22 * AC22	AG22 = (Y22 / X22) * AA22 * AD22	AH22 = (Y22 / X22) * AB22 * AE22	AI22 = AF22 + AG22 + AH22	AJ22 = Y22 - AI22	AK22	AL22 = AJ22 * AK22
23	WILLOW BASIN 5	X23	Y23	Z23	AA23	AB23	AC23	AD23	AE23	AF23 = (Y23 / X23) * Z23 * AC23	AG23 = (Y23 / X23) * AA23 * AD23	AH23 = (Y23 / X23) * AB23 * AE23	AI23 = AF23 + AG23 + AH23	AJ23 = Y23 - AI23	AK23	AL23 = AJ23 * AK23
24	YARROW POINT 6	X24	Y24	Z24	AA24	AB24	AC24	AD24	AE24	AF24 = (Y24 / X24) * Z24 * AC24	AG24 = (Y24 / X24) * AA24 * AD24	AH24 = (Y24 / X24) * AB24 * AE24	AI24 = AF24 + AG24 + AH24	AJ24 = Y24 - AI24	AK24	AL24 = AJ24 * AK24
25	ZION RIDGE 7	X25	Y25	Z25	AA25	AB25	AC25	AD25	AE25	AF25 = (Y25 / X25) * Z25 * AC25	AG25 = (Y25 / X25) * AA25 * AD25	AH25 = (Y25 / X25) * AB25 * AE25	AI25 = AF25 + AG25 + AH25	AJ25 = Y25 - AI25	AK25	AL25 = AJ25 * AK25

Workpaper 013
Pacific Gas and Electric Company
Electrical Undergrounding Program
Core Capability 6: Supporting Formulas
Core Capability 6.3

PSPS Formulas			Year 1												Year 2*	
Portfolio Project # (AO)	Circuit Segment (AP)	Circuit Segment Miles (AQ)	Baseline PSPS Risk (AR)	Mileage Addressed by UG (AS)	Mileage Addressed by OH (AT)	Mileage Addressed by Line Removal (AU)	UG PSPS Mitigation Effectiveness Values (AV)	OH PSPS Mitigation Effectiveness Values (AW)	Line Removal PSPS Mitigation Effectiveness (AX)	PSPS Risk Addressed by UG (AY)	PSPS Risk Addressed by OH (AZ)	PSPS Risk Addressed by LR (BA)	Total PSPS Risk Addressed (BB)	Total Residual PSPS Risk (BC)	Year 2 PSPS Climate Factor (BD)	Year 2: New Baseline PSPS Risk (BE)
Low Risk	ALDER GLEN 1	10.00	$0.07	6.00	3.00	1.00	100%	0%	100%	$0.04	$0.00	$0.01	$0.05	$0.02	1.11	$0.02
Medium Risk	BIRCH RIDGE 2	10.00	$2.82	6.00	3.00	1.00	100%	0%	100%	$1.69	$0.00	$0.28	$1.97	$0.85	1.11	$0.94
High Risk	CEDAR FALLS 3	10.00	$6.51	6.00	3.00	1.00	100%	0%	100%	$3.91	$0.00	$0.65	$4.56	$1.95	1.11	$2.17

PSPS Formulas			Year 1												Year 2*	
Portfolio Project # (AO)	Circuit Segment (AP)	Circuit Segment Miles (AQ)	Baseline PSPS Risk (AR)	Mileage Addressed by UG (AS)	Mileage Addressed by OH (AT)	Mileage Addressed by Line Removal (AU)	UG PSPS Mitigation Effectiveness Values (AV)	OH PSPS Mitigation Effectiveness Values (AW)	Line Removal PSPS Mitigation Effectiveness (AX)	PSPS Risk Addressed by UG (AY)	PSPS Risk Addressed by OH (AZ)	PSPS Risk Addressed by LR (BA)	Total PSPS Risk Addressed (BB)	Total Residual PSPS Risk (BC)	Year 2 PSPS Climate Factor (BD)	Year 2: New Baseline PSPS Risk (BE)
1	ALDER GLEN 1	AQ1	AR1	AS1	AT1	AU1	AV1	AW1	AX1	AY1 = (AR1 / AQ1) * AS1 * AV1	AZ1 = (AR1 / AQ1) * AT1 * AW1	BA1 = (AR1 / AQ1) * AU1 * AX1	BB1 = AY1 + AZ1 + BA1	BC1 = AR1 - BB1	BD1	BE1 = BC1 * BD1
2	BIRCH RIDGE 2	AQ2	AR2	AS2	AT2	AU2	AV2	AW2	AX2	AY2 = (AR2 / AQ2) * AS2 * AV2	AZ2 = (AR2 / AQ2) * AT2 * AW2	BA2 = (AR2 / AQ2) * AU2 * AX2	BB2 = AY2 + AZ2 + BA2	BC2 = AR2 - BB2	BD2	BE2 = BC2 * BD2
3	CEDAR FALLS 3	AQ3	AR3	AS3	AT3	AU3	AV3	AW3	AX3	AY3 = (AR3 / AQ3) * AS3 * AV3	AZ3 = (AR3 / AQ3) * AT3 * AW3	BA3 = (AR3 / AQ3) * AU3 * AX3	BB3 = AY3 + AZ3 + BA3	BC3 = AR3 - BB3	BD3	BE3 = BC3 * BD3
4	DOGWOOD PASS 4	AQ4	AR4	AS4	AT4	AU4	AV4	AW4	AX4	AY4 = (AR4 / AQ4) * AS4 * AV4	AZ4 = (AR4 / AQ4) * AT4 * AW4	BA4 = (AR4 / AQ4) * AU4 * AX4	BB4 = AY4 + AZ4 + BA4	BC4 = AR4 - BB4	BD4	BE4 = BC4 * BD4
5	ELDER CREEK 5	AQ5	AR5	AS5	AT5	AU5	AV5	AW5	AX5	AY5 = (AR5 / AQ5) * AS5 * AV5	AZ5 = (AR5 / AQ5) * AT5 * AW5	BA5 = (AR5 / AQ5) * AU5 * AX5	BB5 = AY5 + AZ5 + BA5	BC5 = AR5 - BB5	BD5	BE5 = BC5 * BD5
6	FOX HOLLOW 6	AQ6	AR6	AS6	AT6	AU6	AV6	AW6	AX6	AY6 = (AR6 / AQ6) * AS6 * AV6	AZ6 = (AR6 / AQ6) * AT6 * AW6	BA6 = (AR6 / AQ6) * AU6 * AX6	BB6 = AY6 + AZ6 + BA6	BC6 = AR6 - BB6	BD6	BE6 = BC6 * BD6
7	GRANITE PEAK 7	AQ7	AR7	AS7	AT7	AU7	AV7	AW7	AX7	AY7 = (AR7 / AQ7) * AS7 * AV7	AZ7 = (AR7 / AQ7) * AT7 * AW7	BA7 = (AR7 / AQ7) * AU7 * AX7	BB7 = AY7 + AZ7 + BA7	BC7 = AR7 - BB7	BD7	BE7 = BC7 * BD7
8	HAWTHORN FLAT 8	AQ8	AR8	AS8	AT8	AU8	AV8	AW8	AX8	AY8 = (AR8 / AQ8) * AS8 * AV8	AZ8 = (AR8 / AQ8) * AT8 * AW8	BA8 = (AR8 / AQ8) * AU8 * AX8	BB8 = AY8 + AZ8 + BA8	BC8 = AR8 - BB8	BD8	BE8 = BC8 * BD8
9	INDIGO RIDGE 9	AQ9	AR9	AS9	AT9	AU9	AV9	AW9	AX9	AY9 = (AR9 / AQ9) * AS9 * AV9	AZ9 = (AR9 / AQ9) * AT9 * AW9	BA9 = (AR9 / AQ9) * AU9 * AX9	BB9 = AY9 + AZ9 + BA9	BC9 = AR9 - BB9	BD9	BE9 = BC9 * BD9
10	JUNIPER POINT 1	AQ10	AR10	AS10	AT10	AU10	AV10	AW10	AX10	AY10 = (AR10 / AQ10) * AS10 * AV10	AZ10 = (AR10 / AQ10) * AT10 * AW10	BA10 = (AR10 / AQ10) * AU10 * AX10	BB10 = AY10 + AZ10 + BA10	BC10 = AR10 - BB10	BD10	BE10 = BC10 * BD10
11	KELSEY BASIN 2	AQ11	AR11	AS11	AT11	AU11	AV11	AW11	AX11	AY11 = (AR11 / AQ11) * AS11 * AV11	AZ11 = (AR11 / AQ11) * AT11 * AW11	BA11 = (AR11 / AQ11) * AU11 * AX11	BB11 = AY11 + AZ11 + BA11	BC11 = AR11 - BB11	BD11	BE11 = BC11 * BD11
12	LARCH MEADOW 3	AQ12	AR12	AS12	AT12	AU12	AV12	AW12	AX12	AY12 = (AR12 / AQ12) * AS12 * AV12	AZ12 = (AR12 / AQ12) * AT12 * AW12	BA12 = (AR12 / AQ12) * AU12 * AX12	BB12 = AY12 + AZ12 + BA12	BC12 = AR12 - BB12	BD12	BE12 = BC12 * BD12
13	MAPLE RIDGE 4	AQ13	AR13	AS13	AT13	AU13	AV13	AW13	AX13	AY13 = (AR13 / AQ13) * AS13 * AV13	AZ13 = (AR13 / AQ13) * AT13 * AW13	BA13 = (AR13 / AQ13) * AU13 * AX13	BB13 = AY13 + AZ13 + BA13	BC13 = AR13 - BB13	BD13	BE13 = BC13 * BD13
14	NOBLE SUMMIT 5	AQ14	AR14	AS14	AT14	AU14	AV14	AW14	AX14	AY14 = (AR14 / AQ14) * AS14 * AV14	AZ14 = (AR14 / AQ14) * AT14 * AW14	BA14 = (AR14 / AQ14) * AU14 * AX14	BB14 = AY14 + AZ14 + BA14	BC14 = AR14 - BB14	BD14	BE14 = BC14 * BD14
15	OAK FLATS 6	AQ15	AR15	AS15	AT15	AU15	AV15	AW15	AX15	AY15 = (AR15 / AQ15) * AS15 * AV15	AZ15 = (AR15 / AQ15) * AT15 * AW15	BA15 = (AR15 / AQ15) * AU15 * AX15	BB15 = AY15 + AZ15 + BA15	BC15 = AR15 - BB15	BD15	BE15 = BC15 * BD15
16	PINE CANYON 7	AQ16	AR16	AS16	AT16	AU16	AV16	AW16	AX16	AY16 = (AR16 / AQ16) * AS16 * AV16	AZ16 = (AR16 / AQ16) * AT16 * AW16	BA16 = (AR16 / AQ16) * AU16 * AX16	BB16 = AY16 + AZ16 + BA16	BC16 = AR16 - BB16	BD16	BE16 = BC16 * BD16
17	QUAIL RIDGE 8	AQ17	AR17	AS17	AT17	AU17	AV17	AW17	AX17	AY17 = (AR17 / AQ17) * AS17 * AV17	AZ17 = (AR17 / AQ17) * AT17 * AW17	BA17 = (AR17 / AQ17) * AU17 * AX17	BB17 = AY17 + AZ17 + BA17	BC17 = AR17 - BB17	BD17	BE17 = BC17 * BD17
18	RAVEN ROCK 9	AQ18	AR18	AS18	AT18	AU18	AV18	AW18	AX18	AY18 = (AR18 / AQ18) * AS18 * AV18	AZ18 = (AR18 / AQ18) * AT18 * AW18	BA18 = (AR18 / AQ18) * AU18 * AX18	BB18 = AY18 + AZ18 + BA18	BC18 = AR18 - BB18	BD18	BE18 = BC18 * BD18
19	SYCAMORE HILL 1	AQ19	AR19	AS19	AT19	AU19	AV19	AW19	AX19	AY19 = (AR19 / AQ19) * AS19 * AV19	AZ19 = (AR19 / AQ19) * AT19 * AW19	BA19 = (AR19 / AQ19) * AU19 * AX19	BB19 = AY19 + AZ19 + BA19	BC19 = AR19 - BB19	BD19	BE19 = BC19 * BD19
20	TAMARACK RIDGE 2	AQ20	AR20	AS20	AT20	AU20	AV20	AW20	AX20	AY20 = (AR20 / AQ20) * AS20 * AV20	AZ20 = (AR20 / AQ20) * AT20 * AW20	BA20 = (AR20 / AQ20) * AU20 * AX20	BB20 = AY20 + AZ20 + BA20	BC20 = AR20 - BB20	BD20	BE20 = BC20 * BD20
21	UPLAND GROVE 3	AQ21	AR21	AS21	AT21	AU21	AV21	AW21	AX21	AY21 = (AR21 / AQ21) * AS21 * AV21	AZ21 = (AR21 / AQ21) * AT21 * AW21	BA21 = (AR21 / AQ21) * AU21 * AX21	BB21 = AY21 + AZ21 + BA21	BC21 = AR21 - BB21	BD21	BE21 = BC21 * BD21
22	VALLEY CREST 4	AQ22	AR22	AS22	AT22	AU22	AV22	AW22	AX22	AY22 = (AR22 / AQ22) * AS22 * AV22	AZ22 = (AR22 / AQ22) * AT22 * AW22	BA22 = (AR22 / AQ22) * AU22 * AX22	BB22 = AY22 + AZ22 + BA22	BC22 = AR22 - BB22	BD22	BE22 = BC22 * BD22
23	WILLOW BASIN 5	AQ23	AR23	AS23	AT23	AU23	AV23	AW23	AX23	AY23 = (AR23 / AQ23) * AS23 * AV23	AZ23 = (AR23 / AQ23) * AT23 * AW23	BA23 = (AR23 / AQ23) * AU23 * AX23	BB23 = AY23 + AZ23 + BA23	BC23 = AR23 - BB23	BD23	BE23 = BC23 * BD23
24	YARROW POINT 6	AQ24	AR24	AS24	AT24	AU24	AV24	AW24	AX24	AY24 = (AR24 / AQ24) * AS24 * AV24	AZ24 = (AR24 / AQ24) * AT24 * AW24	BA24 = (AR24 / AQ24) * AU24 * AX24	BB24 = AY24 + AZ24 + BA24	BC24 = AR24 - BB24	BD24	BE24 = BC24 * BD24
25	ZION RIDGE 7	AQ25	AR25	AS25	AT25	AU25	AV25	AW25	AX25	AY25 = (AR25 / AQ25) * AS25 * AV25	AZ25 = (AR25 / AQ25) * AT25 * AW25	BA25 = (AR25 / AQ25) * AU25 * AX25	BB25 = AY25 + AZ25 + BA25	BC25 = AR25 - BB25	BD25	BE25 = BC25 * BD25

**The baselining of risk*

Workpaper 013
Pacific Gas and Electric Company
Electrical Undergrounding Program
Core Capability 6: Supporting Formulas
Core Capability 6.5

Overview

Core Capability 6 of the EUP Guidelines requires that:

...[T]he Large Electrical Corporation must develop a system to record Baselines and historical model calibrations. A new Baseline must be recorded by the Large Electrical Corporation at least once per calendar year. This new Baseline must account for all physical changes to the electrical distribution infrastructure performed during that year, through the EUP or any other mechanism.

To establish an initial Baseline, the Large Electrical Corporation must model the risk landscape assuming that no EUP Undergrounding Projects are constructed. This Baseline modeling must include any non-EUP wildfire mitigation activity in Tier 2 or 3 HFTDs. In subsequent Baselines, the Large Electrical Corporation must include activity outside of the EUP program that the Large Electrical Corporation has initiated or completed since the establishment of the previous Baseline.

This modeling will attempt to account for climate change. Baselines must be measured and reported at the same cadence as other risk model landscape components at 0, 1, 2, 3, 4, 5, 6,7, 8, 9, 10, 15, 20, 25, 30, 35, 40, 45, 50, and 55 years.

The supporting formulas at right detail the evaluations of instantaneous and cumulative values of Baseline risks from Model Year 0 (Year 2028) for both Ignition Risk and Outage Program Risk; each of which follows a similar process of evaluation.

Additionally, it is noteworthy that the formulations for evaluating the Baseline risks for Core Capability 6 are similar to those of the future risks for Core Capability 4. The salient difference is that the Baseline risk evaluations consider only the effects of mitigation activities completed since Year 2028, and thus rely on knowing an Actual Energization Year for the Circuit Segment, as applicable. In contrast, the future risk evaluations for Core Capability 4 consider the effects of mitigation activities yet to occur, and thus rely on knowing a future Estimated Energization Year, as applicable. Despite these contextual differences, the primary process of evaluation remains the same.

The evaluation begins by collecting Year 2028 / Model Year 0 valuations of the Pre-Mitigation and Residual (i.e., Post-Mitigation) Ignition Risk and Outage Program Risk of the Circuit Segment corresponding to its mitigation activities, if any have been performed since Year 2028. Depending on the Actual Energization Year, EY, of the Circuit Segment following implementation of mitigation activities, the Instantaneous risk for each Model Year is evaluated by multiplying either the Year 2028 / Model Year 0 Pre-Mitigation or Residual Risk by the Climate Factor for each Model Year. Specifically, the Pre-Mitigation risk values are used in the years up to and including EY, and Residual risk values are used in years beyond EY. The Cumulative risk is then evaluated for each Model Year by summing the Instantaneous risk values from Model Year 0 through the current Model Year.

Actual Project Completion / Segment Energization Year

Act. Completion / Energization Year	EY

2028 Ignition Risk for Circuit Segment

Pre-Mitigation Risk (IRA0), A : 'ante'	IRA0
Residual Risk (IRP0), P : 'post'	IRP0 = IRP1 + IRP2 + IRP3 + IRP4
Residual Risk, Mitigation 1 (IRP1)	IRP1
Residual Risk, Mitigation 2 (IRP2)	IRP2
Residual Risk, Mitigation 3 (IRP3)	IRP3
Residual Risk, No Mitigation (IRP4)	IRP4

2028 Outage Program Risk for Circuit Segment

Pre-Mitigation Risk (ORA0), A : 'ante'	ORA0 = ERA0 + PRA0
Residual Risk (ORP0), P : 'post'	ORP0 = ORP1 + ORP2 + ORP3 + ORP4
Residual Risk, Mitigation 1 (ORP1)	ORP1 = ERP1 + PRP1
Residual Risk, Mitigation 2 (ORP2)	ORP2 = ERP2 + PRP2
Residual Risk, Mitigation 3 (ORP3)	ORP3 = ERP3 + PRP3
Residual Risk, No Mitigation (ORP4)	ORP4 = ERP4 + PRP4

2028 EPSS Risk for Circuit Segment

Pre-Mitigation Risk (ERA0), A : 'ante'	ERA0
Residual Risk (ERP0), P : 'post'	ERP0 = ERP1 + ERP2 + ERP3 + ERP4
Residual Risk, Mitigation 1 (ERP1)	ERP1
Residual Risk, Mitigation 2 (ERP2)	ERP2
Residual Risk, Mitigation 3 (ERP3)	ERP3
Residual Risk, No Mitigation (ERP4)	ERP4

2028 PSPS Risk for Circuit Segment

Pre-Mitigation Risk (PRA0), A : 'ante'	PRA0
Residual Risk (PRP0), P : 'post'	PRP0 = PRP1 + PRP2 + PRP3 + PRP4
Residual Risk, Mitigation 1 (PRP1)	PRP1
Residual Risk, Mitigation 2 (PRP2)	PRP2
Residual Risk, Mitigation 3 (PRP3)	PRP3
Residual Risk, No Mitigation (PRP4)	PRP4

Instantaneous and Cumulative Ignition Risk and Outage Program Risk by Model Year

Year (YRx)	Model Year (MYx)	Climate Factor Dividend (CDx)	2028-Normalized Climate Factor (CNx = CDx / CD0)	Instantaneous Ignition Risk Multiplicand (IRMx = if (YRx < EY) then (IRAx) else (IRPx))	Instantaneous Ignition Risk (IRIx = IRMx * Cx)	Cumulative Ignition Risk (IRCx = ∑IRIx; x: {0, …, MYx})	Instantaneous EPSS Risk Multiplicand (ERMx = if (YRx ≤ EY) then (ERAx) else (ERPx))	Instantaneous EPSS Risk (ERIx = ERMx * Cx)	Cumulative EPSS Risk (ERUx = ∑ERIx; x: {0, …, MYx})	Instantaneous PSPS Risk Multiplicand (PRMx = if (YRx ≤ EY) then (PRAx) else (PRPx))	Instantaneous PSPS Risk (PRIx = PRMx * Cx)	Cumulative PSPS Risk (PRUx = ∑PRIx; x: {0, …, MYx})	Instantaneous Outage Program Risk Multiplicand (ORMx = if (YRx ≤ EY) then (ORAx) else (ORPx))	Instantaneous Outage Program Risk (ORIx = ORMx * Cx)	Cumulative Outage Program Risk (ORCx = ∑ORIx; x: {0, …, MYx})
YR0 = 2028	MY0 = 0	CD0	CN0 = CD0 / CD0 = 1	IRM0 = if (YR0 ≤ EY) then (IRA0) else (IRP0)	IRI0 = IRM0 * C0	IRC0 = ∑IRIx; x: {0, …, MY0}	ERM0 = if (YR0 ≤ EY) then (ERA0) else (ERP0)	ERI0 = ERM0 * C0	ERU0 = ∑ERIx; x: {0, …, MY0}	PRM0 = if (YR0 ≤ EY) then (PRA0) else (PRP0)	PRI0 = PRM0 * C0	PRU0 = ∑PRIx; x: {0, …, MY0}	ORM0 = if (YR0 ≤ EY) then (ORA0) else (ORP0)	ORI0 = ORM0 * C0	ORC0 = ∑ORIx; x: {0, …, MY0}
YR1 = 2029	MY1 = 1	CD1	CN1 = CD1 / CD0	IRM1 = if (YR1 ≤ EY) then (IRA0) else (IRP0)	IRI1 = IRM1 * C1	IRC1 = ∑IRIx; x: {0, …, MY1}	ERM1 = if (YR1 ≤ EY) then (ERA0) else (ERP0)	ERI1 = ERM1 * C1	ERU1 = ∑ERIx; x: {0, …, MY1}	PRM1 = if (YR1 ≤ EY) then (PRA0) else (PRP0)	PRI1 = PRM1 * C1	PRU1 = ∑PRIx; x: {0, …, MY1}	ORM1 = if (YR1 ≤ EY) then (ORA0) else (ORP0)	ORI1 = ORM1 * C1	ORC1 = ∑ORIx; x: {0, …, MY1}
YR2 = 2030	MY2 = 2	CD2	CN2 = CD2 / CD0	IRM2 = if (YR2 ≤ EY) then (IRA0) else (IRP0)	IRI2 = IRM2 * C2	IRC2 = ∑IRIx; x: {0, …, MY2}	ERM2 = if (YR2 ≤ EY) then (ERA0) else (ERP0)	ERI2 = ERM2 * C2	ERU2 = ∑ERIx; x: {0, …, MY2}	PRM2 = if (YR2 ≤ EY) then (PRA0) else (PRP0)	PRI2 = PRM2 * C2	PRU2 = ∑PRIx; x: {0, …, MY2}	ORM2 = if (YR2 ≤ EY) then (ORA0) else (ORP0)	ORI2 = ORM2 * C2	ORC2 = ∑ORIx; x: {0, …, MY2}
YR3 = 2031	MY3 = 3	CD3	CN3 = CD3 / CD0	IRM3 = if (YR3 ≤ EY) then (IRA0) else (IRP0)	IRI3 = IRM3 * C3	IRC3 = ∑IRIx; x: {0, …, MY3}	ERM3 = if (YR3 ≤ EY) then (ERA0) else (ERP0)	ERI3 = ERM3 * C3	ERU3 = ∑ERIx; x: {0, …, MY3}	PRM3 = if (YR3 ≤ EY) then (PRA0) else (PRP0)	PRI3 = PRM3 * C3	PRU3 = ∑PRIx; x: {0, …, MY3}	ORM3 = if (YR3 ≤ EY) then (ORA0) else (ORP0)	ORI3 = ORM3 * C3	ORC3 = ∑ORIx; x: {0, …, MY3}
YR4 = 2032	MY4 = 4	CD4	CN4 = CD4 / CD0	IRM4 = if (YR4 ≤ EY) then (IRA0) else (IRP0)	IRI4 = IRM4 * C4	IRC4 = ∑IRIx; x: {0, …, MY4}	ERM4 = if (YR4 ≤ EY) then (ERA0) else (ERP0)	ERI4 = ERM4 * C4	ERU4 = ∑ERIx; x: {0, …, MY4}	PRM4 = if (YR4 ≤ EY) then (PRA0) else (PRP0)	PRI4 = PRM4 * C4	PRU4 = ∑PRIx; x: {0, …, MY4}	ORM4 = if (YR4 ≤ EY) then (ORA0) else (ORP0)	ORI4 = ORM4 * C4	ORC4 = ∑ORIx; x: {0, …, MY4}
YR5 = 2033	MY5 = 5	CD5	CN5 = CD5 / CD0	IRM5 = if (YR5 ≤ EY) then (IRA0) else (IRP0)	IRI5 = IRM5 * C5	IRC5 = ∑IRIx; x: {0, …, MY5}	ERM5 = if (YR5 ≤ EY) then (ERA0) else (ERP0)	ERI5 = ERM5 * C5	ERU5 = ∑ERIx; x: {0, …, MY5}	PRM5 = if (YR5 ≤ EY) then (PRA0) else (PRP0)	PRI5 = PRM5 * C5	PRU5 = ∑PRIx; x: {0, …, MY5}	ORM5 = if (YR5 ≤ EY) then (ORA0) else (ORP0)	ORI5 = ORM5 * C5	ORC5 = ∑ORIx; x: {0, …, MY5}
YR6 = 2034	MY6 = 6	CD6	CN6 = CD6 / CD0	IRM6 = if (YR6 ≤ EY) then (IRA0) else (IRP0)	IRI6 = IRM6 * C6	IRC6 = ∑IRIx; x: {0, …, MY6}	ERM6 = if (YR6 ≤ EY) then (ERA0) else (ERP0)	ERI6 = ERM6 * C6	ERU6 = ∑ERIx; x: {0, …, MY6}	PRM6 = if (YR6 ≤ EY) then (PRA0) else (PRP0)	PRI6 = PRM6 * C6	PRU6 = ∑PRIx; x: {0, …, MY6}	ORM6 = if (YR6 ≤ EY) then (ORA0) else (ORP0)	ORI6 = ORM6 * C6	ORC6 = ∑ORIx; x: {0, …, MY6}
YR7 = 2035	MY7 = 7	CD7	CN7 = CD7 / CD0	IRM7 = if (YR7 ≤ EY) then (IRA0) else (IRP0)	IRI7 = IRM7 * C7	IRC7 = ∑IRIx; x: {0, …, MY7}	ERM7 = if (YR7 ≤ EY) then (ERA0) else (ERP0)	ERI7 = ERM7 * C7	ERU7 = ∑ERIx; x: {0, …, MY7}	PRM7 = if (YR7 ≤ EY) then (PRA0) else (PRP0)	PRI7 = PRM7 * C7	PRU7 = ∑PRIx; x: {0, …, MY7}	ORM7 = if (YR7 ≤ EY) then (ORA0) else (ORP0)	ORI7 = ORM7 * C7	ORC7 = ∑ORIx; x: {0, …, MY7}
YR8 = 2036	MY8 = 8	CD8	CN8 = CD8 / CD0	IRM8 = if (YR8 ≤ EY) then (IRA0) else (IRP0)	IRI8 = IRM8 * C8	IRC8 = ∑IRIx; x: {0, …, MY8}	ERM8 = if (YR8 ≤ EY) then (ERA0) else (ERP0)	ERI8 = ERM8 * C8	ERU8 = ∑ERIx; x: {0, …, MY8}	PRM8 = if (YR8 ≤ EY) then (PRA0) else (PRP0)	PRI8 = PRM8 * C8	PRU8 = ∑PRIx; x: {0, …, MY8}	ORM8 = if (YR8 ≤ EY) then (ORA0) else (ORP0)	ORI8 = ORM8 * C8	ORC8 = ∑ORIx; x: {0, …, MY8}
YR9 = 2037	MY9 = 9	CD9	CN9 = CD9 / CD0	IRM9 = if (YR9 ≤ EY) then (IRA0) else (IRP0)	IRI9 = IRM9 * C9	IRC9 = ∑IRIx; x: {0, …, MY9}	ERM9 = if (YR9 ≤ EY) then (ERA0) else (ERP0)	ERI9 = ERM9 * C9	ERU9 = ∑ERIx; x: {0, …, MY9}	PRM9 = if (YR9 ≤ EY) then (PRA0) else (PRP0)	PRI9 = PRM9 * C9	PRU9 = ∑PRIx; x: {0, …, MY9}	ORM9 = if (YR9 ≤ EY) then (ORA0) else (ORP0)	ORI9 = ORM9 * C9	ORC9 = ∑ORIx; x: {0, …, MY9}
YR10 = 2038	MY10 = 10	CD10	CN10 = CD10 / CD0	IRM10 = if (YR10 ≤ EY) then (IRA0) else (IRP0	IRI10 = IRM10 * C10	IRC10 = ∑IRIx; x: {0, …, MY10}	ERM10 = if (YR10 ≤ EY) then (ERA0) else (ERP0)	ERI10 = ERM10 * C10	ERU10 = ∑ERIx; x: {0, …, MY10}	PRM10 = if (YR10 ≤ EY) then (PRA0) else (PRP0)	PRI10 = PRM10 * C10	PRU10 = ∑PRIx; x: {0, …, MY10}	ORM10 = if (YR10 ≤ EY) then (ORA0) else (ORP0)	ORI10 = ORM10 * C10	ORC10 = ∑ORIx; x: {0, …, MY10}
YR11 = 2039	MY11 = 11	CD11	CN11 = CD11 / CD0	IRM11 = if (YR11 ≤ EY) then (IRA0) else (IRP0	IRI11 = IRM11 * C11	IRC11 = ∑IRIx; x: {0, …, MY11}	ERM11 = if (YR11 ≤ EY) then (ERA0) else (ERP0)	ERI11 = ERM11 * C11	ERU11 = ∑ERIx; x: {0, …, MY11}	PRM11 = if (YR11 ≤ EY) then (PRA0) else (PRP0)	PRI11 = PRM11 * C11	PRU11 = ∑PRIx; x: {0, …, MY11}	ORM11 = if (YR11 ≤ EY) then (ORA0) else (ORP0)	ORI11 = ORM11 * C11	ORC11 = ∑ORIx; x: {0, …, MY11}
YR12 = 2040	MY12 = 12	CD12	CN12 = CD12 / CD0	IRM12 = if (YR12 ≤ EY) then (IRA0) else (IRP0	IRI12 = IRM12 * C12	IRC12 = ∑IRIx; x: {0, …, MY12}	ERM12 = if (YR12 ≤ EY) then (ERA0) else (ERP0)	ERI12 = ERM12 * C12	ERU12 = ∑ERIx; x: {0, …, MY12}	PRM12 = if (YR12 ≤ EY) then (PRA0) else (PRP0)	PRI12 = PRM12 * C12	PRU12 = ∑PRIx; x: {0, …, MY12}	ORM12 = if (YR12 ≤ EY) then (ORA0) else (ORP0)	ORI12 = ORM12 * C12	ORC12 = ∑ORIx; x: {0, …, MY12}
YR13 = 2041	MY13 = 13	CD13	CN13 = CD13 / CD0	IRM13 = if (YR13 ≤ EY) then (IRA0) else (IRP0	IRI13 = IRM13 * C13	IRC13 = ∑IRIx; x: {0, …, MY13}	ERM13 = if (YR13 ≤ EY) then (ERA0) else (ERP0)	ERI13 = ERM13 * C13	ERU13 = ∑ERIx; x: {0, …, MY13}	PRM13 = if (YR13 ≤ EY) then (PRA0) else (PRP0)	PRI13 = PRM13 * C13	PRU13 = ∑PRIx; x: {0, …, MY13}	ORM13 = if (YR13 ≤ EY) then (ORA0) else (ORP0)	ORI13 = ORM13 * C13	ORC13 = ∑ORIx; x: {0, …, MY13}
YR14 = 2042	MY14 = 14	CD14	CN14 = CD14 / CD0	IRM14 = if (YR14 ≤ EY) then (IRA0) else (IRP0	IRI14 = IRM14 * C14	IRC14 = ∑IRIx; x: {0, …, MY14}	ERM14 = if (YR14 ≤ EY) then (ERA0) else (ERP0)	ERI14 = ERM14 * C14	ERU14 = ∑ERIx; x: {0, …, MY14}	PRM14 = if (YR14 ≤ EY) then (PRA0) else (PRP0)	PRI14 = PRM14 * C14	PRU14 = ∑PRIx; x: {0, …, MY14}	ORM14 = if (YR14 ≤ EY) then (ORA0) else (ORP0)	ORI14 = ORM14 * C14	ORC14 = ∑ORIx; x: {0, …, MY14}
YR15 = 2043	MY15 = 15	CD15	CN15 = CD15 / CD0	IRM15 = if (YR15 ≤ EY) then (IRA0) else (IRP0	IRI15 = IRM15 * C15	IRC15 = ∑IRIx; x: {0, …, MY15}	ERM15 = if (YR15 ≤ EY) then (ERA0) else (ERP0)	ERI15 = ERM15 * C15	ERU15 = ∑ERIx; x: {0, …, MY15}	PRM15 = if (YR15 ≤ EY) then (PRA0) else (PRP0)	PRI15 = PRM15 * C15	PRU15 = ∑PRIx; x: {0, …, MY15}	ORM15 = if (YR15 ≤ EY) then (ORA0) else (ORP0)	ORI15 = ORM15 * C15	ORC15 = ∑ORIx; x: {0, …, MY15}
YR16 = 2044	MY16 = 16	CD16	CN16 = CD16 / CD0	IRM16 = if (YR16 ≤ EY) then (IRA0) else (IRP0	IRI16 = IRM16 * C16	IRC16 = ∑IRIx; x: {0, …, MY16}	ERM16 = if (YR16 ≤ EY) then (ERA0) else (ERP0)	ERI16 = ERM16 * C16	ERU16 = ∑ERIx; x: {0, …, MY16}	PRM16 = if (YR16 ≤ EY) then (PRA0) else (PRP0)	PRI16 = PRM16 * C16	PRU16 = ∑PRIx; x: {0, …, MY16}	ORM16 = if (YR16 ≤ EY) then (ORA0) else (ORP0)	ORI16 = ORM16 * C16	ORC16 = ∑ORIx; x: {0, …, MY16}
YR17 = 2045	MY17 = 17	CD17	CN17 = CD17 / CD0	IRM17 = if (YR17 ≤ EY) then (IRA0) else (IRP0	IRI17 = IRM17 * C17	IRC17 = ∑IRIx; x: {0, …, MY17}	ERM17 = if (YR17 ≤ EY) then (ERA0) else (ERP0)	ERI17 = ERM17 * C17	ERU17 = ∑ERIx; x: {0, …, MY17}	PRM17 = if (YR17 ≤ EY) then (PRA0) else (PRP0)	PRI17 = PRM17 * C17	PRU17 = ∑PRIx; x: {0, …, MY17}	ORM17 = if (YR17 ≤ EY) then (ORA0) else (ORP0)	ORI17 = ORM17 * C17	ORC17 = ∑ORIx; x: {0, …, MY17}
YR18 = 2046	MY18 = 18	CD18	CN18 = CD18 / CD0	IRM18 = if (YR18 ≤ EY) then (IRA0) else (IRP0	IRI18 = IRM18 * C18	IRC18 = ∑IRIx; x: {0, …, MY18}	ERM18 = if (YR18 ≤ EY) then (ERA0) else (ERP0)	ERI18 = ERM18 * C18	ERU18 = ∑ERIx; x: {0, …, MY18}	PRM18 = if (YR18 ≤ EY) then (PRA0) else (PRP0)	PRI18 = PRM18 * C18	PRU18 = ∑PRIx; x: {0, …, MY18}	ORM18 = if (YR18 ≤ EY) then (ORA0) else (ORP0)	ORI18 = ORM18 * C18	ORC18 = ∑ORIx; x: {0, …, MY18}
YR19 = 2047	MY19 = 19	CD19	CN19 = CD19 / CD0	IRM19 = if (YR19 ≤ EY) then (IRA0) else (IRP0	IRI19 = IRM19 * C19	IRC19 = ∑IRIx; x: {0, …, MY19}	ERM19 = if (YR19 ≤ EY) then (ERA0) else (ERP0)	ERI19 = ERM19 * C19	ERU19 = ∑ERIx; x: {0, …, MY19}	PRM19 = if (YR19 ≤ EY) then (PRA0) else (PRP0)	PRI19 = PRM19 * C19	PRU19 = ∑PRIx; x: {0, …, MY19}	ORM19 = if (YR19 ≤ EY) then (ORA0) else (ORP0)	ORI19 = ORM19 * C19	ORC19 = ∑ORIx; x: {0, …, MY19}
YR20 = 2048	MY20 = 20	CD20	CN20 = CD20 / CD0	IRM20 = if (YR20 ≤ EY) then (IRA0) else (IRP0	IRI20 = IRM20 * C20	IRC20 = ∑IRIx; x: {0, …, MY20}	ERM20 = if (YR20 ≤ EY) then (ERA0) else (ERP0)	ERI20 = ERM20 * C20	ERU20 = ∑ERIx; x: {0, …, MY20}	PRM20 = if (YR20 ≤ EY) then (PRA0) else (PRP0)	PRI20 = PRM20 * C20	PRU20 = ∑PRIx; x: {0, …, MY20}	ORM20 = if (YR20 ≤ EY) then (ORA0) else (ORP0)	ORI20 = ORM20 * C20	ORC20 = ∑ORIx; x: {0, …, MY20}
YR21 = 2049	MY21 = 21	CD21	CN21 = CD21 / CD0	IRM21 = if (YR21 ≤ EY) then (IRA0) else (IRP0	IRI21 = IRM21 * C21	IRC21 = ∑IRIx; x: {0, …, MY21}	ERM21 = if (YR21 ≤ EY) then (ERA0) else (ERP0)	ERI21 = ERM21 * C21	ERU21 = ∑ERIx; x: {0, …, MY21}	PRM21 = if (YR21 ≤ EY) then (PRA0) else (PRP0)	PRI21 = PRM21 * C21	PRU21 = ∑PRIx; x: {0, …, MY21}	ORM21 = if (YR21 ≤ EY) then (ORA0) else (ORP0)	ORI21 = ORM21 * C21	ORC21 = ∑ORIx; x: {0, …, MY21}
YR22 = 2050	MY22 = 22	CD22	CN22 = CD22 / CD0	IRM22 = if (YR22 ≤ EY) then (IRA0) else (IRP0	IRI22 = IRM22 * C22	IRC22 = ∑IRIx; x: {0, …, MY22}	ERM22 = if (YR22 ≤ EY) then (ERA0) else (ERP0)	ERI22 = ERM22 * C22	ERU22 = ∑ERIx; x: {0, …, MY22}	PRM22 = if (YR22 ≤ EY) then (PRA0) else (PRP0)	PRI22 = PRM22 * C22	PRU22 = ∑PRIx; x: {0, …, MY22}	ORM22 = if (YR22 ≤ EY) then (ORA0) else (ORP0)	ORI22 = ORM22 * C22	ORC22 = ∑ORIx; x: {0, …, MY22}
YR23 = 2051	MY23 = 23	CD23	CN23 = CD23 / CD0	IRM23 = if (YR23 ≤ EY) then (IRA0) else (IRP0	IRI23 = IRM23 * C23	IRC23 = ∑IRIx; x: {0, …, MY23}	ERM23 = if (YR23 ≤ EY) then (ERA0) else (ERP0)	ERI23 = ERM23 * C23	ERU23 = ∑ERIx; x: {0, …, MY23}	PRM23 = if (YR23 ≤ EY) then (PRA0) else (PRP0)	PRI23 = PRM23 * C23	PRU23 = ∑PRIx; x: {0, …, MY23}	ORM23 = if (YR23 ≤ EY) then (ORA0) else (ORP0)	ORI23 = ORM23 * C23	ORC23 = ∑ORIx; x: {0, …, MY23}
YR24 = 2052	MY24 = 24	CD24	CN24 = CD24 / CD0	IRM24 = if (YR24 ≤ EY) then (IRA0) else (IRP0	IRI24 = IRM24 * C24	IRC24 = ∑IRIx; x: {0, …, MY24}	ERM24 = if (YR24 ≤ EY) then (ERA0) else (ERP0)	ERI24 = ERM24 * C24	ERU24 = ∑ERIx; x: {0, …, MY24}	PRM24 = if (YR24 ≤ EY) then (PRA0) else (PRP0)	PRI24 = PRM24 * C24	PRU24 = ∑PRIx; x: {0, …, MY24}	ORM24 = if (YR24 ≤ EY) then (ORA0) else (ORP0)	ORI24 = ORM24 * C24	ORC24 = ∑ORIx; x: {0, …, MY24}
YR25 = 2053	MY25 = 25	CD25	CN25 = CD25 / CD0	IRM25 = if (YR25 ≤ EY) then (IRA0) else (IRP0	IRI25 = IRM25 * C25	IRC25 = ∑IRIx; x: {0, …, MY25}	ERM25 = if (YR25 ≤ EY) then (ERA0) else (ERP0)	ERI25 = ERM25 * C25	ERU25 = ∑ERIx; x: {0, …, MY25}	PRM25 = if (YR25 ≤ EY) then (PRA0) else (PRP0)	PRI25 = PRM25 * C25	PRU25 = ∑PRIx; x: {0, …, MY25}	ORM25 = if (YR25 ≤ EY) then (ORA0) else (ORP0)	ORI25 = ORM25 * C25	ORC25 = ∑ORIx; x: {0, …, MY25}
YR26 = 2054	MY26 = 26	CD26	CN26 = CD26 / CD0	IRM26 = if (YR26 ≤ EY) then (IRA0) else (IRP0	IRI26 = IRM26 * C26	IRC26 = ∑IRIx; x: {0, …, MY26}	ERM26 = if (YR26 ≤ EY) then (ERA0) else (ERP0)	ERI26 = ERM26 * C26	ERU26 = ∑ERIx; x: {0, …, MY26}	PRM26 = if (YR26 ≤ EY) then (PRA0) else (PRP0)	PRI26 = PRM26 * C26	PRU26 = ∑PRIx; x: {0, …, MY26}	ORM26 = if (YR26 ≤ EY) then (ORA0) else (ORP0)	ORI26 = ORM26 * C26	ORC26 = ∑ORIx; x: {0, …, MY26}
YR27 = 2055	MY27 = 27	CD27	CN27 = CD27 / CD0	IRM27 = if (YR27 ≤ EY) then (IRA0) else (IRP0	IRI27 = IRM27 * C27	IRC27 = ∑IRIx; x: {0, …, MY27}	ERM27 = if (YR27 ≤ EY) then (ERA0) else (ERP0)	ERI27 = ERM27 * C27	ERU27 = ∑ERIx; x: {0, …, MY27}	PRM27 = if (YR27 ≤ EY) then (PRA0) else (PRP0)	PRI27 = PRM27 * C27	PRU27 = ∑PRIx; x: {0, …, MY27}	ORM27 = if (YR27 ≤ EY) then (ORA0) else (ORP0)	ORI27 = ORM27 * C27	ORC27 = ∑ORIx; x: {0, …, MY27}
YR28 = 2056	MY28 = 28	CD28	CN28 = CD28 / CD0	IRM28 = if (YR28 ≤ EY) then (IRA0) else (IRP0	IRI28 = IRM28 * C28	IRC28 = ∑IRIx; x: {0, …, MY28}	ERM28 = if (YR28 ≤ EY) then (ERA0) else (ERP0)	ERI28 = ERM28 * C28	ERU28 = ∑ERIx; x: {0, …, MY28}	PRM28 = if (YR28 ≤ EY) then (PRA0) else (PRP0)	PRI28 = PRM28 * C28	PRU28 = ∑PRIx; x: {0, …, MY28}	ORM28 = if (YR28 ≤ EY) then (ORA0) else (ORP0)	ORI28 = ORM28 * C28	ORC28 = ∑ORIx; x: {0, …, MY28}
YR29 = 2057	MY29 = 29	CD29	CN29 = CD29 / CD0	IRM29 = if (YR29 ≤ EY) then (IRA0) else (IRP0	IRI29 = IRM29 * C29	IRC29 = ∑IRIx; x: {0, …, MY29}	ERM29 = if (YR29 ≤ EY) then (ERA0) else (ERP0)	ERI29 = ERM29 * C29	ERU29 = ∑ERIx; x: {0, …, MY29}	PRM29 = if (YR29 ≤ EY) then (PRA0) else (PRP0)	PRI29 = PRM29 * C29	PRU29 = ∑PRIx; x: {0, …, MY29}	ORM29 = if (YR29 ≤ EY) then (ORA0) else (ORP0)	ORI29 = ORM29 * C29	ORC29 = ∑ORIx; x: {0, …, MY29}
YR30 = 2058	MY30 = 30	CD30	CN30 = CD30 / CD0	IRM30 = if (YR30 ≤ EY) then (IRA0) else (IRP0	IRI30 = IRM30 * C30	IRC30 = ∑IRIx; x: {0, …, MY30}	ERM30 = if (YR30 ≤ EY) then (ERA0) else (ERP0)	ERI30 = ERM30 * C30	ERU30 = ∑ERIx; x: {0, …, MY30}	PRM30 = if (YR30 ≤ EY) then (PRA0) else (PRP0)	PRI30 = PRM30 * C30	PRU30 = ∑PRIx; x: {0, …, MY30}	ORM30 = if (YR30 ≤ EY) then (ORA0) else (ORP0)	ORI30 = ORM30 * C30	ORC30 = ∑ORIx; x: {0, …, MY30}
YR31 = 2059	MY31 = 31	CD31	CN31 = CD31 / CD0	IRM31 = if (YR31 ≤ EY) then (IRA0) else (IRP0	IRI31 = IRM31 * C31	IRC31 = ∑IRIx; x: {0, …, MY31}	ERM31 = if (YR31 ≤ EY) then (ERA0) else (ERP0)	ERI31 = ERM31 * C31	ERU31 = ∑ERIx; x: {0, …, MY31}	PRM31 = if (YR31 ≤ EY) then (PRA0) else (PRP0)	PRI31 = PRM31 * C31	PRU31 = ∑PRIx; x: {0, …, MY31}	ORM31 = if (YR31 ≤ EY) then (ORA0) else (ORP0)	ORI31 = ORM31 * C31	ORC31 = ∑ORIx; x: {0, …, MY31}
YR32 = 2060	MY32 = 32	CD32	CN32 = CD32 / CD0	IRM32 = if (YR32 ≤ EY) then (IRA0) else (IRP0	IRI32 = IRM32 * C32	IRC32 = ∑IRIx; x: {0, …, MY32}	ERM32 = if (YR32 ≤ EY) then (ERA0) else (ERP0)	ERI32 = ERM32 * C32	ERU32 = ∑ERIx; x: {0, …, MY32}	PRM32 = if (YR32 ≤ EY) then (PRA0) else (PRP0)	PRI32 = PRM32 * C32	PRU32 = ∑PRIx; x: {0, …, MY32}	ORM32 = if (YR32 ≤ EY) then (ORA0) else (ORP0)	ORI32 = ORM32 * C32	ORC32 = ∑ORIx; x: {0, …, MY32}
YR33 = 2061	MY33 = 33	CD33	CN33 = CD33 / CD0	IRM33 = if (YR33 ≤ EY) then (IRA0) else (IRP0	IRI33 = IRM33 * C33	IRC33 = ∑IRIx; x: {0, …, MY33}	ERM33 = if (YR33 ≤ EY) then (ERA0) else (ERP0)	ERI33 = ERM33 * C33	ERU33 = ∑ERIx; x: {0, …, MY33}	PRM33 = if (YR33 ≤ EY) then (PRA0) else (PRP0)	PRI33 = PRM33 * C33	PRU33 = ∑PRIx; x: {0, …, MY33}	ORM33 = if (YR33 ≤ EY) then (ORA0) else (ORP0)	ORI33 = ORM33 * C33	ORC33 = ∑ORIx; x: {0, …, MY33}
YR34 = 2062	MY34 = 34	CD34	CN34 = CD34 / CD0	IRM34 = if (YR34 ≤ EY) then (IRA0) else (IRP0	IRI34 = IRM34 * C34	IRC34 = ∑IRIx; x: {0, …, MY34}	ERM34 = if (YR34 ≤ EY) then (ERA0) else (ERP0)	ERI34 = ERM34 * C34	ERU34 = ∑ERIx; x: {0, …, MY34}	PRM34 = if (YR34 ≤ EY) then (PRA0) else (PRP0)	PRI34 = PRM34 * C34	PRU34 = ∑PRIx; x: {0, …, MY34}	ORM34 = if (YR34 ≤ EY) then (ORA0) else (ORP0)	ORI34 = ORM34 * C34	ORC34 = ∑ORIx; x: {0, …, MY34}
YR35 = 2063	MY35 = 35	CD35	CN35 = CD35 / CD0	IRM35 = if (YR35 ≤ EY) then (IRA0) else (IRP0	IRI35 = IRM35 * C35	IRC35 = ∑IRIx; x: {0, …, MY35}	ERM35 = if (YR35 ≤ EY) then (ERA0) else (ERP0)	ERI35 = ERM35 * C35	ERU35 = ∑ERIx; x: {0, …, MY35}	PRM35 = if (YR35 ≤ EY) then (PRA0) else (PRP0)	PRI35 = PRM35 * C35	PRU35 = ∑PRIx; x: {0, …, MY35}	ORM35 = if (YR35 ≤ EY) then (ORA0) else (ORP0)	ORI35 = ORM35 * C35	ORC35 = ∑ORIx; x: {0, …, MY35}
YR36 = 2064	MY36 = 36	CD36	CN36 = CD36 / CD0	IRM36 = if (YR36 ≤ EY) then (IRA0) else (IRP0	IRI36 = IRM36 * C36	IRC36 = ∑IRIx; x: {0, …, MY36}	ERM36 = if (YR36 ≤ EY) then (ERA0) else (ERP0)	ERI36 = ERM36 * C36	ERU36 = ∑ERIx; x: {0, …, MY36}	PRM36 = if (YR36 ≤ EY) then (PRA0) else (PRP0)	PRI36 = PRM36 * C36	PRU36 = ∑PRIx; x: {0, …, MY36}	ORM36 = if (YR36 ≤ EY) then (ORA0) else (ORP0)	ORI36 = ORM36 * C36	ORC36 = ∑ORIx; x: {0, …, MY36}
YR37 = 2065	MY37 = 37	CD37	CN37 = CD37 / CD0	IRM37 = if (YR37 ≤ EY) then (IRA0) else (IRP0	IRI37 = IRM37 * C37	IRC37 = ∑IRIx; x: {0, …, MY37}	ERM37 = if (YR37 ≤ EY) then (ERA0) else (ERP0)	ERI37 = ERM37 * C37	ERU37 = ∑ERIx; x: {0, …, MY37}	PRM37 = if (YR37 ≤ EY) then (PRA0) else (PRP0)	PRI37 = PRM37 * C37	PRU37 = ∑PRIx; x: {0, …, MY37}	ORM37 = if (YR37 ≤ EY) then (ORA0) else (ORP0)	ORI37 = ORM37 * C37	ORC37 = ∑ORIx; x: {0, …, MY37}
YR38 = 2066	MY38 = 38	CD38	CN38 = CD38 / CD0	IRM38 = if (YR38 ≤ EY) then (IRA0) else (IRP0	IRI38 = IRM38 * C38	IRC38 = ∑IRIx; x: {0, …, MY38}	ERM38 = if (YR38 ≤ EY) then (ERA0) else (ERP0)	ERI38 = ERM38 * C38	ERU38 = ∑ERIx; x: {0, …, MY38}	PRM38 = if (YR38 ≤ EY) then (PRA0) else (PRP0)	PRI38 = PRM38 * C38	PRU38 = ∑PRIx; x: {0, …, MY38}	ORM38 = if (YR38 ≤ EY) then (ORA0) else (ORP0)	ORI38 = ORM38 * C38	ORC38 = ∑ORIx; x: {0, …, MY38}
YR39 = 2067	MY39 = 39	CD39	CN39 = CD39 / CD0	IRM39 = if (YR39 ≤ EY) then (IRA0) else (IRP0	IRI39 = IRM39 * C39	IRC39 = ∑IRIx; x: {0, …, MY39}	ERM39 = if (YR39 ≤ EY) then (ERA0) else (ERP0)	ERI39 = ERM39 * C39	ERU39 = ∑ERIx; x: {0, …, MY39}	PRM39 = if (YR39 ≤ EY) then (PRA0) else (PRP0)	PRI39 = PRM39 * C39	PRU39 = ∑PRIx; x: {0, …, MY39}	ORM39 = if (YR39 ≤ EY) then (ORA0) else (ORP0)	ORI39 = ORM39 * C39	ORC39 = ∑ORIx; x: {0, …, MY39}
YR40 = 2068	MY40 = 40	CD40	CN40 = CD40 / CD0	IRM40 = if (YR40 ≤ EY) then (IRA0) else (IRP0	IRI40 = IRM40 * C40	IRC40 = ∑IRIx; x: {0, …, MY40}	ERM40 = if (YR40 ≤ EY) then (ERA0) else (ERP0)	ERI40 = ERM40 * C40	ERU40 = ∑ERIx; x: {0, …, MY40}	PRM40 = if (YR40 ≤ EY) then (PRA0) else (PRP0)	PRI40 = PRM40 * C40	PRU40 = ∑PRIx; x: {0, …, MY40}	ORM40 = if (YR40 ≤ EY) then (ORA0) else (ORP0)	ORI40 = ORM40 * C40	ORC40 = ∑ORIx; x: {0, …, MY40}
YR41 = 2069	MY41 = 41	CD41	CN41 = CD41 / CD0	IRM41 = if (YR41 ≤ EY) then (IRA0) else (IRP0	IRI41 = IRM41 * C41	IRC41 = ∑IRIx; x: {0, …, MY41}	ERM41 = if (YR41 ≤ EY) then (ERA0) else (ERP0)	ERI41 = ERM41 * C41	ERU41 = ∑ERIx; x: {0, …, MY41}	PRM41 = if (YR41 ≤ EY) then (PRA0) else (PRP0)	PRI41 = PRM41 * C41	PRU41 = ∑PRIx; x: {0, …, MY41}	ORM41 = if (YR41 ≤ EY) then (ORA0) else (ORP0)	ORI41 = ORM41 * C41	ORC41 = ∑ORIx; x: {0, …, MY41}
YR42 = 2070	MY42 = 42	CD42	CN42 = CD42 / CD0	IRM42 = if (YR42 ≤ EY) then (IRA0) else (IRP0	IRI42 = IRM42 * C42	IRC42 = ∑IRIx; x: {0, …, MY42}	ERM42 = if (YR42 ≤ EY) then (ERA0) else (ERP0)	ERI42 = ERM42 * C42	ERU42 = ∑ERIx; x: {0, …, MY42}	PRM42 = if (YR42 ≤ EY) then (PRA0) else (PRP0)	PRI42 = PRM42 * C42	PRU42 = ∑PRIx; x: {0, …, MY42}	ORM42 = if (YR42 ≤ EY) then (ORA0) else (ORP0)	ORI42 = ORM42 * C42	ORC42 = ∑ORIx; x: {0, …, MY42}
YR43 = 2071	MY43 = 43	CD43	CN43 = CD43 / CD0	IRM43 = if (YR43 ≤ EY) then (IRA0) else (IRP0	IRI43 = IRM43 * C43	IRC43 = ∑IRIx; x: {0, …, MY43}	ERM43 = if (YR43 ≤ EY) then (ERA0) else (ERP0)	ERI43 = ERM43 * C43	ERU43 = ∑ERIx; x: {0, …, MY43}	PRM43 = if (YR43 ≤ EY) then (PRA0) else (PRP0)	PRI43 = PRM43 * C43	PRU43 = ∑PRIx; x: {0, …, MY43}	ORM43 = if (YR43 ≤ EY) then (ORA0) else (ORP0)	ORI43 = ORM43 * C43	ORC43 = ∑ORIx; x: {0, …, MY43}
YR44 = 2072	MY44 = 44	CD44	CN44 = CD44 / CD0	IRM44 = if (YR44 ≤ EY) then (IRA0) else (IRP0	IRI44 = IRM44 * C44	IRC44 = ∑IRIx; x: {0, …, MY44}	ERM44 = if (YR44 ≤ EY) then (ERA0) else (ERP0)	ERI44 = ERM44 * C44	ERU44 = ∑ERIx; x: {0, …, MY44}	PRM44 = if (YR44 ≤ EY) then (PRA0) else (PRP0)	PRI44 = PRM44 * C44	PRU44 = ∑PRIx; x: {0, …, MY44}	ORM44 = if (YR44 ≤ EY) then (ORA0) else (ORP0)	ORI44 = ORM44 * C44	ORC44 = ∑ORIx; x: {0, …, MY44}
YR45 = 2073	MY45 = 45	CD45	CN45 = CD45 / CD0	IRM45 = if (YR45 ≤ EY) then (IRA0) else (IRP0	IRI45 = IRM45 * C45	IRC45 = ∑IRIx; x: {0, …, MY45}	ERM45 = if (YR45 ≤ EY) then (ERA0) else (ERP0)	ERI45 = ERM45 * C45	ERU45 = ∑ERIx; x: {0, …, MY45}	PRM45 = if (YR45 ≤ EY) then (PRA0) else (PRP0)	PRI45 = PRM45 * C45	PRU45 = ∑PRIx; x: {0, …, MY45}	ORM45 = if (YR45 ≤ EY) then (ORA0) else (ORP0)	ORI45 = ORM45 * C45	ORC45 = ∑ORIx; x: {0, …, MY45}
YR46 = 2074	MY46 = 46	CD46	CN46 = CD46 / CD0	IRM46 = if (YR46 ≤ EY) then (IRA0) else (IRP0	IRI46 = IRM46 * C46	IRC46 = ∑IRIx; x: {0, …, MY46}	ERM46 = if (YR46 ≤ EY) then (ERA0) else (ERP0)	ERI46 = ERM46 * C46	ERU46 = ∑ERIx; x: {0, …, MY46}	PRM46 = if (YR46 ≤ EY) then (PRA0) else (PRP0)	PRI46 = PRM46 * C46	PRU46 = ∑PRIx; x: {0, …, MY46}	ORM46 = if (YR46 ≤ EY) then (ORA0) else (ORP0)	ORI46 = ORM46 * C46	ORC46 = ∑ORIx; x: {0, …, MY46}
YR47 = 2075	MY47 = 47	CD47	CN47 = CD47 / CD0	IRM47 = if (YR47 ≤ EY) then (IRA0) else (IRP0	IRI47 = IRM47 * C47	IRC47 = ∑IRIx; x: {0, …, MY47}	ERM47 = if (YR47 ≤ EY) then (ERA0) else (ERP0)	ERI47 = ERM47 * C47	ERU47 = ∑ERIx; x: {0, …, MY47}	PRM47 = if (YR47 ≤ EY) then (PRA0) else (PRP0)	PRI47 = PRM47 * C47	PRU47 = ∑PRIx; x: {0, …, MY47}	ORM47 = if (YR47 ≤ EY) then (ORA0) else (ORP0)	ORI47 = ORM47 * C47	ORC47 = ∑ORIx; x: {0, …, MY47}
YR48 = 2076	MY48 = 48	CD48	CN48 = CD48 / CD0	IRM48 = if (YR48 ≤ EY) then (IRA0) else (IRP0	IRI48 = IRM48 * C48	IRC48 = ∑IRIx; x: {0, …, MY48}	ERM48 = if (YR48 ≤ EY) then (ERA0) else (ERP0)	ERI48 = ERM48 * C48	ERU48 = ∑ERIx; x: {0, …, MY48}	PRM48 = if (YR48 ≤ EY) then (PRA0) else (PRP0)	PRI48 = PRM48 * C48	PRU48 = ∑PRIx; x: {0, …, MY48}	ORM48 = if (YR48 ≤ EY) then (ORA0) else (ORP0)	ORI48 = ORM48 * C48	ORC48 = ∑ORIx; x: {0, …, MY48}
YR49 = 2077	MY49 = 49	CD49	CN49 = CD49 / CD0	IRM49 = if (YR49 ≤ EY) then (IRA0) else (IRP0	IRI49 = IRM49 * C49	IRC49 = ∑IRIx; x: {0, …, MY49}	ERM49 = if (YR49 ≤ EY) then (ERA0) else (ERP0)	ERI49 = ERM49 * C49	ERU49 = ∑ERIx; x: {0, …, MY49}	PRM49 = if (YR49 ≤ EY) then (PRA0) else (PRP0)	PRI49 = PRM49 * C49	PRU49 = ∑PRIx; x: {0, …, MY49}	ORM49 = if (YR49 ≤ EY) then (ORA0) else (ORP0)	ORI49 = ORM49 * C49	ORC49 = ∑ORIx; x: {0, …, MY49}
YR50 = 2078	MY50 = 50	CD50	CN50 = CD50 / CD0	IRM50 = if (YR50 ≤ EY) then (IRA0) else (IRP0	IRI50 = IRM50 * C50	IRC50 = ∑IRIx; x: {0, …, MY50}	ERM50 = if (YR50 ≤ EY) then (ERA0) else (ERP0)	ERI50 = ERM50 * C50	ERU50 = ∑ERIx; x: {0, …, MY50}	PRM50 = if (YR50 ≤ EY) then (PRA0) else (PRP0)	PRI50 = PRM50 * C50	PRU50 = ∑PRIx; x: {0, …, MY50}	ORM50 = if (YR50 ≤ EY) then (ORA0) else (ORP0)	ORI50 = ORM50 * C50	ORC50 = ∑ORIx; x: {0, …, MY50}
YR51 = 2079	MY51 = 51	CD51	CN51 = CD51 / CD0	IRM51 = if (YR51 ≤ EY) then (IRA0) else (IRP0	IRI51 = IRM51 * C51	IRC51 = ∑IRIx; x: {0, …, MY51}	ERM51 = if (YR51 ≤ EY) then (ERA0) else (ERP0)	ERI51 = ERM51 * C51	ERU51 = ∑ERIx; x: {0, …, MY51}	PRM51 = if (YR51 ≤ EY) then (PRA0) else (PRP0)	PRI51 = PRM51 * C51	PRU51 = ∑PRIx; x: {0, …, MY51}	ORM51 = if (YR51 ≤ EY) then (ORA0) else (ORP0)	ORI51 = ORM51 * C51	ORC51 = ∑ORIx; x: {0, …, MY51}
YR52 = 2080	MY52 = 52	CD52	CN52 = CD52 / CD0	IRM52 = if (YR52 ≤ EY) then (IRA0) else (IRP0	IRI52 = IRM52 * C52	IRC52 = ∑IRIx; x: {0, …, MY52}	ERM52 = if (YR52 ≤ EY) then (ERA0) else (ERP0)	ERI52 = ERM52 * C52	ERU52 = ∑ERIx; x: {0, …, MY52}	PRM52 = if (YR52 ≤ EY) then (PRA0) else (PRP0)	PRI52 = PRM52 * C52	PRU52 = ∑PRIx; x: {0, …, MY52}	ORM52 = if (YR52 ≤ EY) then (ORA0) else (ORP0)	ORI52 = ORM52 * C52	ORC52 = ∑ORIx; x: {0, …, MY52}
YR53 = 2081	MY53 = 53	CD53	CN53 = CD53 / CD0	IRM53 = if (YR53 ≤ EY) then (IRA0) else (IRP0	IRI53 = IRM53 * C53	IRC53 = ∑IRIx; x: {0, …, MY53}	ERM53 = if (YR53 ≤ EY) then (ERA0) else (ERP0)	ERI53 = ERM53 * C53	ERU53 = ∑ERIx; x: {0, …, MY53}	PRM53 = if (YR53 ≤ EY) then (PRA0) else (PRP0)	PRI53 = PRM53 * C53	PRU53 = ∑PRIx; x: {0, …, MY53}	ORM53 = if (YR53 ≤ EY) then (ORA0) else (ORP0)	ORI53 = ORM53 * C53	ORC53 = ∑ORIx; x: {0, …, MY53}
YR54 = 2082	MY54 = 54	CD54	CN54 = CD54 / CD0	IRM54 = if (YR54 ≤ EY) then (IRA0) else (IRP0	IRI54 = IRM54 * C54	IRC54 = ∑IRIx; x: {0, …, MY54}	ERM54 = if (YR54 ≤ EY) then (ERA0) else (ERP0)	ERI54 = ERM54 * C54	ERU54 = ∑ERIx; x: {0, …, MY54}	PRM54 = if (YR54 ≤ EY) then (PRA0) else (PRP0)	PRI54 = PRM54 * C54	PRU54 = ∑PRIx; x: {0, …, MY54}	ORM54 = if (YR54 ≤ EY) then (ORA0) else (ORP0)	ORI54 = ORM54 * C54	ORC54 = ∑ORIx; x: {0, …, MY54}
YR55 = 2083	MY55 = 55	CD55	CN55 = CD55 / CD0	IRM55 = if (YR55 ≤ EY) then (IRA0) else (IRP0	IRI55 = IRM55 * C55	IRC55 = ∑IRIx; x: {0, …, MY55}	ERM55 = if (YR55 ≤ EY) then (ERA0) else (ERP0)	ERI55 = ERM55 * C55	ERU55 = ∑ERIx; x: {0, …, MY55}	PRM55 = if (YR55 ≤ EY) then (PRA0) else (PRP0)	PRI55 = PRM55 * C55	PRU55 = ∑PRIx; x: {0, …, MY55}	ORM55 = if (YR55 ≤ EY) then (ORA0) else (ORP0)	ORI55 = ORM55 * C55	ORC55 = ∑ORIx; x: {0, …, MY55}
YR56 = 2084	MY56 = 56	CD56	CN56 = CD56 / CD0	IRM56 = if (YR56 ≤ EY) then (IRA0) else (IRP0	IRI56 = IRM56 * C56	IRC56 = ∑IRIx; x: {0, …, MY56}	ERM56 = if (YR56 ≤ EY) then (ERA0) else (ERP0)	ERI56 = ERM56 * C56	ERU56 = ∑ERIx; x: {0, …, MY56}	PRM56 = if (YR56 ≤ EY) then (PRA0) else (PRP0)	PRI56 = PRM56 * C56	PRU56 = ∑PRIx; x: {0, …, MY56}	ORM56 = if (YR56 ≤ EY) then (ORA0) else (ORP0)	ORI56 = ORM56 * C56	ORC56 = ∑ORIx; x: {0, …, MY56}
YR57 = 2085	MY57 = 57	CD57	CN57 = CD57 / CD0	IRM57 = if (YR57 ≤ EY) then (IRA0) else (IRP0	IRI57 = IRM57 * C57	IRC57 = ∑IRIx; x: {0, …, MY57}	ERM57 = if (YR57 ≤ EY) then (ERA0) else (ERP0)	ERI57 = ERM57 * C57	ERU57 = ∑ERIx; x: {0, …, MY57}	PRM57 = if (YR57 ≤ EY) then (PRA0) else (PRP0)	PRI57 = PRM57 * C57	PRU57 = ∑PRIx; x: {0, …, MY57}	ORM57 = if (YR57 ≤ EY) then (ORA0) else (ORP0)	ORI57 = ORM57 * C57	ORC57 = ∑ORIx; x: {0, …, MY57}
YR58 = 2086	MY58 = 58	CD58	CN58 = CD58 / CD0	IRM58 = if (YR58 ≤ EY) then (IRA0) else (IRP0	IRI58 = IRM58 * C58	IRC58 = ∑IRIx; x: {0, …, MY58}	ERM58 = if (YR58 ≤ EY) then (ERA0) else (ERP0)	ERI58 = ERM58 * C58	ERU58 = ∑ERIx; x: {0, …, MY58}	PRM58 = if (YR58 ≤ EY) then (PRA0) else (PRP0)	PRI58 = PRM58 * C58	PRU58 = ∑PRIx; x: {0, …, MY58}	ORM58 = if (YR58 ≤ EY) then (ORA0) else (ORP0)	ORI58 = ORM58 * C58	ORC58 = ∑ORIx; x: {0, …, MY58}
YR59 = 2087	MY59 = 59	CD59	CN59 = CD59 / CD0	IRM59 = if (YR59 ≤ EY) then (IRA0) else (IRP0	IRI59 = IRM59 * C59	IRC59 = ∑IRIx; x: {0, …, MY59}	ERM59 = if (YR59 ≤ EY) then (ERA0) else (ERP0)	ERI59 = ERM59 * C59	ERU59 = ∑ERIx; x: {0, …, MY59}	PRM59 = if (YR59 ≤ EY) then (PRA0) else (PRP0)	PRI59 = PRM59 * C59	PRU59 = ∑PRIx; x: {0, …, MY59}	ORM59 = if (YR59 ≤ EY) then (ORA0) else (ORP0)	ORI59 = ORM59 * C59	ORC59 = ∑ORIx; x: {0, …, MY59}
YR60 = 2088	MY60 = 60	CD60	CN60 = CD60 / CD0	IRM60 = if (YR60 ≤ EY) then (IRA0) else (IRP0	IRI60 = IRM60 * C60	IRC60 = ∑IRIx; x: {0, …, MY60}	ERM60 = if (YR60 ≤ EY) then (ERA0) else (ERP0)	ERI60 = ERM60 * C60	ERU60 = ∑ERIx; x: {0, …, MY60}	PRM60 = if (YR60 ≤ EY) then (PRA0) else (PRP0)	PRI60 = PRM60 * C60	PRU60 = ∑PRIx; x: {0, …, MY60}	ORM60 = if (YR60 ≤ EY) then (ORA0) else (ORP0)	ORI60 = ORM60 * C60	ORC60 = ∑ORIx; x: {0, …, MY60}
YR61 = 2089	MY61 = 61	CD61	CN61 = CD61 / CD0	IRM61 = if (YR61 ≤ EY) then (IRA0) else (IRP0	IRI61 = IRM61 * C61	IRC61 = ∑IRIx; x: {0, …, MY61}	ERM61 = if (YR61 ≤ EY) then (ERA0) else (ERP0)	ERI61 = ERM61 * C61	ERU61 = ∑ERIx; x: {0, …, MY61}	PRM61 = if (YR61 ≤ EY) then (PRA0) else (PRP0)	PRI61 = PRM61 * C61	PRU61 = ∑PRIx; x: {0, …, MY61}	ORM61 = if (YR61 ≤ EY) then (ORA0) else (ORP0)	ORI61 = ORM61 * C61	ORC61 = ∑ORIx; x: {0, …, MY61}
YR62 = 2090	MY62 = 62	CD62	CN62 = CD62 / CD0	IRM62 = if (YR62 ≤ EY) then (IRA0) else (IRP0	IRI62 = IRM62 * C62	IRC62 = ∑IRIx; x: {0, …, MY62}	ERM62 = if (YR62 ≤ EY) then (ERA0) else (ERP0)	ERI62 = ERM62 * C62	ERU62 = ∑ERIx; x: {0, …, MY62}	PRM62 = if (YR62 ≤ EY) then (PRA0) else (PRP0)	PRI62 = PRM62 * C62	PRU62 = ∑PRIx; x: {0, …, MY62}	ORM62 = if (YR62 ≤ EY) then (ORA0) else (ORP0)	ORI62 = ORM62 * C62	ORC62 = ∑ORIx; x: {0, …, MY62}
YR63 = 2091	MY63 = 63	CD63	CN63 = CD63 / CD0	IRM63 = if (YR63 ≤ EY) then (IRA0) else (IRP0	IRI63 = IRM63 * C63	IRC63 = ∑IRIx; x: {0, …, MY63}	ERM63 = if (YR63 ≤ EY) then (ERA0) else (ERP0)	ERI63 = ERM63 * C63	ERU63 = ∑ERIx; x: {0, …, MY63}	PRM63 = if (YR63 ≤ EY) then (PRA0) else (PRP0)	PRI63 = PRM63 * C63	PRU63 = ∑PRIx; x: {0, …, MY63}	ORM63 = if (YR63 ≤ EY) then (ORA0) else (ORP0)	ORI63 = ORM63 * C63	ORC63 = ∑ORIx; x: {0, …, MY63}
YR64 = 2092	MY64 = 64	CD64	CN64 = CD64 / CD0	IRM64 = if (YR64 ≤ EY) then (IRA0) else (IRP0	IRI64 = IRM64 * C64	IRC64 = ∑IRIx; x: {0, …, MY64}	ERM64 = if (YR64 ≤ EY) then (ERA0) else (ERP0)	ERI64 = ERM64 * C64	ERU64 = ∑ERIx; x: {0, …, MY64}	PRM64 = if (YR64 ≤ EY) then (PRA0) else (PRP0)	PRI64 = PRM64 * C64	PRU64 = ∑PRIx; x: {0, …, MY64}	ORM64 = if (YR64 ≤ EY) then (ORA0) else (ORP0)	ORI64 = ORM64 * C64	ORC64 = ∑ORIx; x: {0, …, MY64}
YR65 = 2093	MY65 = 65	CD65	CN65 = CD65 / CD0	IRM65 = if (YR65 ≤ EY) then (IRA0) else (IRP0	IRI65 = IRM65 * C65	IRC65 = ∑IRIx; x: {0, …, MY65}	ERM65 = if (YR65 ≤ EY) then (ERA0) else (ERP0)	ERI65 = ERM65 * C65	ERU65 = ∑ERIx; x: {0, …, MY65}	PRM65 = if (YR65 ≤ EY) then (PRA0) else (PRP0)	PRI65 = PRM65 * C65	PRU65 = ∑PRIx; x: {0, …, MY65}	ORM65 = if (YR65 ≤ EY) then (ORA0) else (ORP0)	ORI65 = ORM65 * C65	ORC65 = ∑ORIx; x: {0, …, MY65}
YR66 = 2094	MY66 = 66	CD66	CN66 = CD66 / CD0	IRM66 = if (YR66 ≤ EY) then (IRA0) else (IRP0	IRI66 = IRM66 * C66	IRC66 = ∑IRIx; x: {0, …, MY66}	ERM66 = if (YR66 ≤ EY) then (ERA0) else (ERP0)	ERI66 = ERM66 * C66	ERU66 = ∑ERIx; x: {0, …, MY66}	PRM66 = if (YR66 ≤ EY) then (PRA0) else (PRP0)	PRI66 = PRM66 * C66	PRU66 = ∑PRIx; x: {0, …, MY66}	ORM66 = if (YR66 ≤ EY) then (ORA0) else (ORP0)	ORI66 = ORM66 * C66	ORC66 = ∑ORIx; x: {0, …, MY66}

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP014

CORE CAPABILITY 7: SUPPORTING FORMULAS

Workpaper 014
Pacific Gas and Electric Company
Electrical Undergrounding Program
Core Capability 7: Supporting Formulas

Scenario	Circuit Segment	NPV Mitigated Risk over Lifetime Benefit1 (D)	Lifetime Costs2 (E)	Baseline Lifetime Costs3 (F)	Benefit Cost Ratio (G)
Low Risk Scenario	ALDER GLEN 1	$6.00	$3.50	$2.50	6.00
Medium Risk Scenario	BIRCH RIDGE 2	$12.00	$7.00	$3.10	3.08
High Risk Scenario	CEDAR FALLS 3	$27.00	$5.00	$1.40	7.50

The figures in this table are examples only and do not represent actual data

Portfolio Project #	Circuit Segment	NPV Mitigated Risk over Lifetime Benefit1 (D)	Lifetime Costs2 (E)	Baseline Lifetime Costs3 (F)	Benefit Cost Ratio (G)
1	ALDER GLEN 1	D1	E1	F1	G1 = D1 / (E1 - F1)
2	BIRCH RIDGE 2	D2	E2	F2	G2 = D2 / (E2 - F2)
3	CEDAR FALLS 3	D3	E3	F3	G3 = D3 / (E3 - F3)
4	DOGWOOD PASS 4	D4	E4	F4	G4 = D4 / (E4 - F4)
5	ELDER CREEK 5	D5	E5	F5	G5 = D5 / (E5 - F5)
6	FOX HOLLOW 6	D6	E6	F6	G6 = D6 / (E6 - F6)
7	GRANITE PEAK 7	D7	E7	F7	G7 = D7 / (E7 - F7)
8	HAWTHORN FLAT 8	D8	E8	F8	G8 = D8 / (E8 - F8)
9	INDIGO RIDGE 9	D9	E9	F9	G9 = D9 / (E9 - F9)
10	JUNIPER POINT 1	D10	E10	F10	G10 = D10 / (E10 - F10)
11	KELSEY BASIN 2	D11	E11	F11	G11 = D11 / (E11 - F11)
12	LARCH MEADOW 3	D12	E12	F12	G12 = D12 / (E12 - F12)
13	MAPLE RIDGE 4	D13	E13	F13	G13 = D13 / (E13 - F13)
14	NOBLE SUMMIT 5	D14	E14	F14	G14 = D14 / (E14 - F14)
15	OAK FLATS 6	D15	E15	F15	G15 = D15 / (E15 - F15)
16	PINE CANYON 7	D16	E16	F16	G16 = D16 / (E16 - F16)
17	QUAIL RIDGE 8	D17	E17	F17	G17 = D17 / (E17 - F17)
18	RAVEN ROCK 9	D18	E18	F18	G18 = D18 / (E18 - F18)
19	SYCAMORE HILL 1	D19	E19	F19	G19 = D19 / (E19 - F19)
20	TAMARACK RIDGE 2	D20	E20	F20	G20 = D20 / (E20 - F20)
21	UPLAND GROVE 3	D21	E21	F21	G21 = D21 / (E21 - F21)
22	VALLEY CREST 4	D22	E22	F22	G22 = D22 / (E22 - F22)
23	WILLOW BASIN 5	D23	E23	F23	G23 = D23 / (E23 - F23)
24	YARROW POINT 6	D24	E24	F24	G24 = D24 / (E24 - F24)
25	ZION RIDGE 7	D25	E25	F25	G25 = D25 / (E25 - F25)

[1] NPV Mitigated Risk over Lifetime Benefit = (Wildfire Risk Reduction + EPSS Risk Reduction + PSPS Risk Reduction + Reliability Risk Reduction)* (Risk Specific Climate Adjusted NPV Factor) + ((Safety Risk Reduction) * (Safety NPV Factor))

[2] Lifetime Costs = (Initial Capital Spend) + (O&M Capital Spend) + (O&M Expense Spend)

[3] Baseline Lifetime Costs = (O&M Capital Spend)baseline + (O&M Expense Spend)baseline

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP015

DISTRIBUTION EVENT PROBABILITY MODELS

VERSION 4 (DEPM V4)

Distribution Event Probability Models Version 4 (DEPM v4) Documentation



Prepared By: PG&E Risk and Data Analytics Team

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Revision History

Rev	Date	Comment
0	08/27/2024	Initial Release
1	03/12/2025	Added new cover page

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Executive Summary

The Distribution Event Probability Models (DEPM) are used by PG&E to quantify and categorized failure and ignition events from the overhead distribution network assets. The event probability model suite predicts the relative likelihood of failure and ignition events for distribution assets for a wildfire season.

The DEPM model suite is comprised of a top-level Probability of Ignition model and a supporting suite of Probability of Failure/Outage models. There are two types of Probability of Event Failure/Outage models, Equipment and Contact From Object. Equipment models address failures of physical equipment assets on the distribution grid. Contact From Object models predict failures that result when an external object such as a tree, vehicle, or animal contact a grid asset.

The DEPM supports the Wildfire Distribution Risk Model (WDRM) mission to quantify and categorize wildfire risk from overhead distribution network assets. The relative wildfire risk results produced by the WDRM inform the PG&E Wildfire Mitigation Plan (WMP) as well as specific mitigation program work plans to help realize the company stand, *"Catastrophic wildfires will stop"*.

This document describes DEPM version 4 (v4) development by the PG&E Risk and Data Analytics (RaDA) team and highlights improvement implemented over its predecessor, DEPM v3.

DEPM v4 Improvements

DEPM v4 features several significant improvements to the modeling of asset failure and ignition events:

- Substantial improvements to data quality of asset records, event locations, and event causes resulted in improved model performance.
- Model development training data sets were adjusted for the impact of EPSS.
- Several equipment asset models were upgraded from spatial to asset time-series models, resulting in improved model performance and direct aggregation of risk by asset to circuit segments, which in turn improved relative circuit segment risk values for WDRM v4.
- Several new features were added to the Vegetation models to better account for climate change effects and to improve model performance.
- Introduction of event cause and equipment type interaction terms to the Probability of Ignition given Outage model to improve performance for causal pathways that share underlying characteristics for weather and fuels.

DEPM v4 Event Probability Insights

The improvements implemented for DEPM v4 have resulted in generally improved performance metrics when compared with the v3 model. The newly developed equipment asset models provide more causal insight into outage and ignition events for mitigation planning.

An analysis of the v3 and v4 probability of ignition values revealed that the v4 results provide more relative sensitivity for comparing assets, locations, and circuit segment aggregated values. One contributor to the increased risk sensitivity is that the probability of ignition range for v4 has increased by more than an order of magnitude over the range produced by the v3 model. The increased range resulted from the introduction of the new equipment asset models and improved model data quality. Consequently, the probability of ignition for v4 has a larger influence on circuit segment wildfire risk values and ranks for WDRM v4 than for WDRM v3.

DEPM v4 Event Future Plans

PG&E has historically released new versions of the WDRM, and the supporting DEPM, on an annual cycle. In the future, WDRM releases are to be aligned with the Wildfire Mitigation Plan (WMP) filing schedule rather than annually. WDRM v4 is intended to support PG&E's 2026 WMP.

DEPM v4 delivered several features planned for 2024 and 2025 development. Future event probability models will aim to improve on existing features and capabilities while addressing additional unquantified risk. Some of the expected future development includes:

- Extending the event probability model time horizon beyond the wildfire season to cover the entire calendar year in support of public safety and reliability risk models.
- Development of new Underground Equipment Asset models.
- Additional models will be transitioned from using a spatial modeling to a temporal modeling algorithm to improve performance by accounting for changes in model features over time.
- Continuous improvement efforts to the capture, detail, maintenance, and curation of data sets used for the event probability models.
- Incorporate improved FPI model predictions from Meteorology into the Probability of Ignition model.

1 Introduction

1.1 Event Probability Model Overview

A key component in evaluating the operational risk resulting from PG&E's electrical distribution network is the capability to predict the types and frequency of failure, outage, and ignition events. The Distribution Network Event Probability Models integrate collective knowledge about historical distribution grid events to estimate the likelihood of future events.

The Event Probability Model predictions can be used to support multiple types of risk assessment for planning operations and maintenance activities. The most significant use of the models, currently, is contributing to the determination of Wildfire risk to inform long-term mitigation work planning. The model predictions can also be used to assess other types of risk such as Public Safety and Reliability.

1.2 Event Probability Model Types

The types of probability models produced for predicting future events are:

- Probability of Outage models
  - Equipment Asset models
  - Contact From Object models
- Probability of Ignition (Given Outage) model

1.2.1 Equipment Asset Model Types

Equipment Asset models consider event history and contributing factors to predict failure of specific types of electrical equipment. Each asset model uses a unique set of inputs (covariates) from a pool of asset attributes and environmental conditions. For some assets, unique models (sub-sets), are produced for specific types of failures.

The following Equipment Asset models were produced for v4:

- Capacitor Bank
- Dynamic Protection Device (DPD)
- Fuse
- Primary Conductor
  - Line Slap
  - Wire Down
  - Other
- Secondary Conductor
- Support Structure
  - Electrical Failure
  - Structural Failure
- Switch
- Transformer
  - Leaking
  - Failure
- Voltage Regulator
- Other Equipment

1.2.2 Contact From Object Model Types

Contact From Object models consider event history and contributing factors to predict failure caused by contact from foreign objects with electrical assets. Each contact model uses a unique set of inputs (covariates) from a pool of object attributes and environmental conditions. All contact models provide unique models (sub-sets) for specific types of contact failures.

The following Contact From Object models were developed for v4:

- Animal
  - Bird
  - Squirrel
  - Other
- Third-Party
  - Balloon
  - Vehicle
  - Other
- Vegetation
  - Branch
  - Trunk
  - Other

1.2.3 Probability of Ignition Model

The probability of ignition is the likelihood that an asset-based ignition will occur during a fire season. Probability of Ignition is predicted by the Probability of Ignition Given Outage model using the probability of outage predictions from all of the Asset Equipment and Contact From Object models along with other attributes such as environmental conditions. Fire season probabilities of ignitions are individually predicted for each specific Asset Equipment and Contact From Object Model.

1.3 Wildfire Distribution Risk Model (WDRM)

The WDRM is the primary risk model that PG&E uses to prioritize mitigation work to reduce wildfires initiated by the distribution grid. Mitigation program work planners use the WDRM results, along with their mitigation program work planning tools to develop work plans that systematically reduce wildfire risk while considering constraints such as budget allocation, human and equipment resource capacity, and regulatory commitments.

The WDRM is released periodically by the RaDA team to quantify the risk related to PG&E's overhead distribution equipment assets, which consist of overhead transformers, poles and other parts of support structures, lines (conductors), and line-related equipment such as interrupters. The WDRM provides predictions of wildfire risk that occurs during an annual wildfire season of June 1st through November 30th.

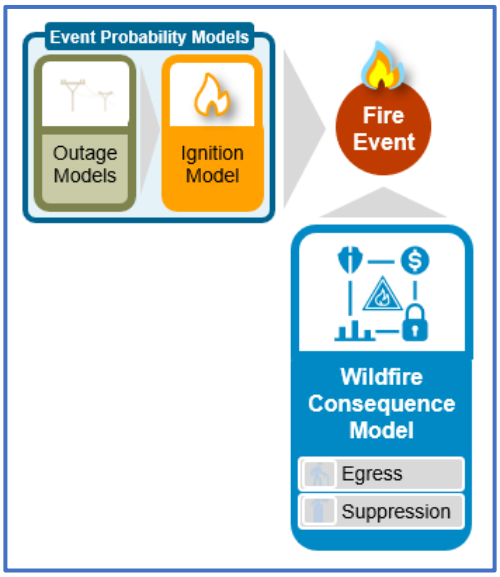


Figure 1 - Wildfire Risk Model

Wildfire risk is calculated from two component values, Probability of Ignition and Wildfire Consequence. Probability of Ignition, p(i), is the annual fire season likelihood that an ignition will originate at the location of an electrical asset. p(i) is predicted by the Event Probability Models described in this document. Wildfire Consequence, WFC, is the expected outcome, or consequence of a fire that ignites at a specific geographic location (of an asset). The Wildfire Consequence Model provides ignition event consequence values and is described in a separate document.

The wildfire risk calculation is:

$$Risk_{loc} = p(i)_{loc} * WFC_{loc} = LoRE_{loc} * CoRE_{loc}$$

where:

CoRE	Consequence of Risk Event, an alternative name for WFC
loc	Asset location expressed as a 100m square pixel within the PG&E service territory
LoRE	Likelihood of Risk Event, an alternative name for p(i)
p(i)	Probability of Ignition
Risk	Wildfire risk
WFC	Wildfire consequence

1.4 Document Content

This document is part of the documentation suite for the Wildfire Distribution Risk Model (WDRM) v4:

- WDRM v4 Documentation
- Wildfire Fire Consequence Model v4 Documentation
- Distribution Network Event Probability Models v4 Documentation (this document)
- RaDA Algorithms and Methodologies

The intent of this document is to present the development, performance, and use of the Distribution Event Probability Models that support the wildfire risk predictions provided by WDRM v4. Source data, modeling approach, and resulting probability predictions are described in detail.

This document seeks to provide the lay reader with a broad understanding of the event probability models. It is not intended to provide comprehensive detailed mathematical or scientific descriptions of all methods used to produce the Event Probability Models.

2 Event Probability Model Improvements

2.1 Version Evolution

The event probability models have been expanded in scope with each release. Generally, with each release new causal models have been introduced that improve the ability of work planners to select the correct mitigation strategy to minimize the outages and failures that can result in ignitions along the distribution grid. Figure 2 provides an overview of how the event probability models have evolved with each version release.

Event Probability Model Evolution

Feature	v1 (2019)	v2 (2021)	v3 (2022)	v4 (2023)
Service Scope	HFTD Tier 2/3	HFTD Tier 2/3	Service Territory	Service Territory
GIS Vintage	2018	2018v/2020c	January 2022	January 2023
Ignitions Event Domain	2015 – 2018	2015 – 2019	2015 – 2020	2015 – 2022
Failures Event Domain	n/a	n/a	2015 – 2021	2015 – 2022
Circuit Segment Aggregation	x	x	Mean Pixel	Risk per Line Mile
Model Compositing	x	x	✓	✓
Asset Models				
Primary Conductor	Pixel-based	Pixel-based	Pixel-based	Asset-based
Secondary Conductor	x	x	Pixel-based	Pixel-based
Support Structure	x	x	Pixel-based	Asset-based
Transformer	x	x	Pixel-based	Asset-based
Voltage Control	x	x	Pixel-based	Asset-based
Capacitor Bank	x	x	x	Asset-based
Switch	x	x	x	Asset-based
DPD	x	x	x	Asset-based
Fuse	x	x	x	Asset-based
Vegetation Models	Pixel-based	Pixel-based	Pixel-based	Pixel-based
LiDAR Data	x	x	✓	✓
with Tree Canopy Density	x	x	x	✓
Tree Health & Wind Direction	x	x	x	✓
Wind Direction	x	x	x	✓
Animal Models	x	x	Pixel-based	Pixel-based
Third Party Models	x	x	Pixel-based	Pixel-based

Figure 2 – Event Probability Model Evolution

2.2 Probability of Failure/Outage Improvements

Several general improvements focused on data pipelines and quality were made to the v4 event probability failure and outage models, including:

- Addition of 2022 events for Failure/Outage and Ignitions.
- Association of historical equipment failure events with the equipment ID of the asset that failed, even if that asset was removed from service. This included a review of the wildfire season events for each time series asset model.
- Enhanced data set reliability through implementation of data pipeline best practices including unit test coverage and setting schema and value data quality expectations.
- Review of the keyword text extraction to identify failure sub drivers based on repair records and field notes. This is particularly important for outage events, where the primary cause and sub cause may not be updated after an initial troubleshooter review.
- Enhanced latitude and longitude locations from vegetation outage inspections for improved fault location of vegetation failure events.

Most asset models have been upgraded to produce asset-based time-series model results rather than spatial grid pixel predictions, enabling the direct aggregation of asset event probabilities and risks to its specific circuit segment for v4. In contrast, v3 asset results were assign to its containing 100m by 100m grid pixel and the asset event probabilities and risk were shared equally with all circuit segments that touched the pixel. This upgrade results in better understanding of relative circuit segment risk for the WDRM. The following models produce asset-specific time-series results for v4:

- Capacitor Bank
- DPD
- Fuse
- Primary Conductor
- Support Structure
- Switch
- Transformer
- Voltage Regulator

Several new features were added to the Vegetation models, accounting for climate change and improving model performance:

- Standardized Precipitation and Evapo-Transpiration Index (SPEI)
- Climatic Water Deficit (CWD)
- California High Hazard Zones from CalFIRE
- Tree Canopy Density from Planet Labs
- Wind Strike Potential
- Improved tree failure location data

2.3 Probability of Ignition Improvements

The key improvements for the Probability of Ignition model include:

- Introduction of event cause and equipment type interaction terms to the Probability of Ignition given Outage model to improve performance for causal pathways that share underlying characteristics for weather and fuels.
- Removing the impact of EPSS activation from the ignitions event training data set.
- Incorporating the expanded set of Probability of Failure/Outage causal models.

3 Event Probability Model Descriptions

3.1 Overview

The following sections describe the development and results for the complete set of v4 probability models. The primary purpose of these models, when combined, is to produce a set of electrical assets probability of ignition estimates for a future fire season for the WDRM.

The event probability models are comprised of a top-level Probability of Ignition model and a supporting suite of Probability of Failure/Outage models. There are two types of Probability of Event Failure/Outage models, Equipment and Contact From Object. Equipment models address failures of physical equipment assets on the distribution grid. Contact From Object models predict failures that result when an external object such as a tree, vehicle, or animal contact a grid asset.

As noted above, the primary purpose driving development of the Event Probability Models is to support the WDRM. However, the Probability of Failure Models can support other risk evaluation needs, such as Reliability and Public Safety Risks.

The v4 event probability models provide event likelihood predictions for distribution network assets as recorded in PG&E's Electric Distribution Geographic Information System (EDGIS) as of January 1st, 2023.

3.2 Model Development Process

All event probability models are developed following an iterative process. A high-level view of the development process is shown in *Figure 3*.

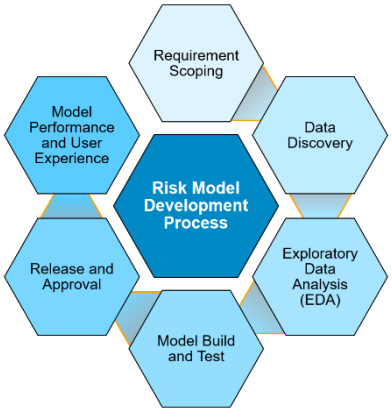


Figure 3 - Model Development Process

Requirement Scoping – Encompasses user feedback, new user requirements, potential performance improvements, and new or desired causal information to set model development goals.

Data Discovery – Researching new data sources, obtaining updates to refresh existing data sources, and cleaning and validating data for potential model use.

Exploratory Data Analysis (EDA) – Data analysis and investigation to determine fitness for modeling.

Model Build and Test – Successive builds of proposed models verified for performance against independent testing data.

Release and Approval – Candidate release models are published to the user community for critique. Viable release candidates are presented through a governance process to gain approval for general release in support of wildfire mitigation work planning.

Model Performance and User Experience – The approved model is monitored for performance against actual events and user feedback is collected to inform the next iteration of model development.

This is a very simplified description of the risk modeling process. Model development is an iterative learning process. As knowledge is gained, model development may require a return to a prior process step.

3.2.1 Model Performance and Feature Metrics

Several metrics are used during the model development process to gauge model quality. Model performance metrics are used to gain insight into how a model performs on data its algorithm hasn't been exposed to during model development. Model feature metrics provide insight into how helpful and influential model feature inputs are to the model outcomes.

Model performance metrics are typically generated by withholding an out-of-sample test data set from the data gathered for model training. After fitting a candidate model using a machine learning algorithm, the candidate is exercised to generate model predictions for the test data set. The candidate model predictions are compared against the actual test data set outcomes to produce performance metrics. The performance metrics commonly used by the RaDA team metrics used for evaluating machine learning models are:

- ROC AUC Curves
- Precision-Recall Curves and Average Precision
- Top 20% Concentration Factor

Features metrics are used to help explain how a machine learning model is influenced by its covariates, why the model predicts a particular set of results, and guides subsequent feature selection for candidate models. Feature metrics are often reviewed with Subject Matter Experts (SMEs) to understand whether or not expected covariates are important to the model and, if not, why not. Conversely, feature metric reviews also carefully consider the importance of unexpected covariates. The most common feature metrics used by the RaDA team include:

- Feature Importance Plots
- SHAP Plots

The model performance and feature metrics are explained in more detail in the RaDA Algorithms and Methodologies document.

3.3 EPSS Impact on Event Modeling

The introduction of Enhanced Powerline Safety Settings (EPSS) as an operational tool for preventing wildfires impacts the target, or training, data sets used to build and calibrate the event probability models. EPSS activation, in general, increases the number of outages for protected conductors while decreasing the number of ignitions. However, as EPSS is not always enabled, the event probability models need to predict event likelihood in the absence of any optional operational control measures. Therefore, the impact of EPSS is removed from target failure and ignition seasonal counts prior to event model calibration.

The EPSS causal impact is inferred from the 2021 EPSS trial period, which was conducted during the 2021 fire season from July 28th through October 23rd, 2021. The trial was conducted on 160 circuits whose protective devices were initially set to the most sensitive default trip setting and were transitioned to less sensitive engineer-specified EPSS settings during the trial. By the start of the 2022 fire season, EPSS settings were available on virtually all circuits in the High Fire Threat District (HFTD), with the settings activated only during periods of elevated ignition risk as determined using PG&E Meteorology's FPI R-score and wind condition forecasts.

The EPSS implementation team estimated program impacts by comparing event rates for EPSS protected circuits from the four years, 2017 – 2020, prior to EPSS enablement and under conditions that would have resulted in

EPSS activation with event rates from when the settings were enabled during the 2022 fire season. Synthetic Difference in Differences (SDID) estimation was applied to event rates for EPSS protected circuits during time periods when EPSS was not enabled in comparison with event rates for non-EPSS protected circuits across the entire wildfire season. The SDID analysis produced estimates of how much EPSS activation increases the rate of outage events and decreases the rate of ignition events.

2022 wildfire season EPSS daily activation records were used to correct the observed event frequency for distribution grid pixel locations where EPSS would likely be activated for future fire seasons. For example, take a set of grid pixels with EPSS protection where:

Variable	Value	Description
$p(e)_{Observed}$	10	Count of observed events, outage or ignition, in a fire season
f_{EPSS}	0.15	Fraction of fire season days with EPSS activated
α_{EPSS}	0.1	Fractional change in events with EPSS activated from SDIS analysis
$p(e)_{Corrected}$	---	Fire season event count corrected for EPSS impact

The EPSS event count correction factor is determined from the observed count, the fraction of EPSS activation days in the fire season, and the fractional change in events with EPSS activated:

$$p(e)_{Observed} = p(e)_{Corrected} * (1 - f_{EPSS}) + p(e)_{Corrected} * (1 + \propto_{EPSS}) * f_{EPSS}$$

Substituting in the example values:

$$10 = p(e)_{Corrected} * (1 - 0.15) + p(e)_{Corrected} * (1 + 0.1) * 0.15$$

$$10 = p(e)_{Corrected} * 0.85 + p(e)_{Corrected} * 0.165 = p(e)_{Corrected} * 1.015$$

$$p(e)_{Corrected} = 9.852$$

The general equation can be simplified to:

$$p(e)_{Corrected} = \frac{p(e)_{Observed}}{1 + f_{EPSS} * \propto_{EPSS}}$$

Again, substituting in the example values:

$$p(e)_{Corrected} = \frac{10}{1 + 0.15 * 0.1} = \frac{10}{1 + 0.015} = \frac{10}{1.015} = 9.852$$

EPSS was implemented first during the 2021 fire season. Therefore, only event counts for the 2021 and 2022 fires seasons are adjusted for EPSS impacts. Event counts for the 2015 through 2020 are used as observed. Therefore, the overall v4 impact for EPSS impact is minor. EPSS impact will become more important for future models as new fire season data is added to the training data sets.

3.4 Training Target Data Sets

The Failures/Outage and Ignition event data used to train and validate the event probability models is produced from the following PG&E data sets:

Table 1 - Event Target Data Set Sources

Data Set	Description	Source
Outages/Forced Outages	Automated detection and documentation of outages that interrupt power to at least one customer.	Integrated Logging Information System (ILIS)
Hazards/Damages	Issues classified as potential hazards or actual equipment damage identified during post-PSPS event inspections.	Post-PSPS Inspection Data
Ignitions	Ignitions with no corresponding ILIS outage are treated as a failure/outage for model development	Electronic Ignitions Database
Emergency A-tags	A-tags with an Outage Information System (OIS) number not included in any other data set above are treated as a failure/outage event for model development.	SAP Notifications

The *Table 1* source event data sets were selected to provide as many failure or fault events as possible representing the modeled failure drivers with accurate event date and time data. The events need an accurate date and time to associate the event with the weather data for the ignition modeling. For this reason, pre-existing failures identified during inspection were not used.

Events used for modeling were filtered using the following criteria:

- Occurred during wildfire season.
- Occurred during or after 2015 when improved ignition recording was initiated.
- Event has a recorded latitude and longitude, a requirement for location-based pixel models.
- Restricted, where known, to overhead assets.
    - Some non-overhead events likely remain in the target data sets due to ambiguous labeling.

For each qualified event, four attributes are extracted from the source data sets to assign the event to the appropriate Equipment Asset or Contact From Object event probability model:

Table 2 - Event Categorization Attributes

Field	Description
Cause	Primary failure cause
Sub-Cause	Failure cause detail
Equipment Type	Asset involved in event
Voltage Category	Primary or secondary system

Table 3 summarizes how categorical attributes are used to assign events to event probability models:

Table 3 - Probability Model Event Assignment

Model	Cause	Sub-Cause	Equipment Type	Voltage Category
Animal-Bird	Animal	Bird	--	--
Animal-Squirrel	Animal	Squirrel	--	--
Animal-Other	Animal	Other	--	--
Capacitor Bank	Equipment	--	Capacitor Bank	--
DPD	Equipment	--	Dynamic Protection Device	--
Fuse	Equipment	--	Fuse	--
Primary Conductor-Line Slap	Equipment	Line Slap	Conductor	Primary
Primary Conductor-Wire Down	Equipment	Wire Down	Conductor	Primary
Primary Conductor-Other	Equipment	Other	Conductor	Primary
Secondary Conductor	Unknown, Environmental, or Equipment	--	Conductor	Secondary
Support Structure-Electrical	Equipment	Tracking or Arcing	Support Structure	--
Support Structure-Equipment	Equipment	Structural or Failure	Support Structure	--
Switch	Equipment	--	Switch	--
Third-Party – Balloon	Third-Party	Balloon	--	--
Third-Party – Vehicle	Third-Party	Vehicle	--	--
Third-Party – Other	Third-Party	Other	--	--
Transformer-Equipment	Equipment	Overloaded or Failure	Transformer	--
Transformer-Leaking	Equipment	Corroded or Leaking	Transformer	--
Vegetation-Branch	Vegetation	Branch	--	--
Vegetation-Trunk	Vegetation	Trunk	--	--
Vegetation-Other	Vegetation	Other	--	--
Voltage Regulator	Equipment	--	Voltage Regulator	--
Other Equipment	Unknown, Environmental, or Equipment	--	Other	--

3.5 Probability of Failure/Outage Models

The probability of failure and outage models predict the likelihood of an electrical grid asset failure or outage during a fire season. This section will describe each of the probability of failure models in detail and has been organized by the two broad types of failure model types, Equipment Asset and Contact From Object, which include:

- Equipment Asset models
  - Capacitor Banks
  - Dynamic Protective Devices (DPD)
  - Fuses
  - Primary Conductors
  - Secondary Conductors
  - Transformers
  - Voltage Regulators
  - Other Equipment
- Contact From Object models
  - Animal
  - Third-Party
  - Vegetation

3.5.1 Equipment Asset Models

The DEPM v4 equipment asset models scale the methodology used for the v3 support structure and transformer models to all but two asset models. The methodology tracks assets over the modeling period using historical snapshots of EDGIS asset data sets. Using historical data sets enables identification of a failed asset even if the asset was removed from service due to the failure. In turn, the attributes of a failed asset can be linked to its failure and used to train an asset model.

The v4 asset-specific models are a significant upgrade over the v3 pixel-based models. A common issue with pixel model data is that a pixel often contained multiple assets, making it difficult to understand precisely which asset was most at risk for failure. The v4 asset-specific models, therefore, are more useful for developing targeted asset management and asset work plans.

Table 4 - Equipment Asset Model Summary

Equipment Asset Event Model	Wildfire Season (mean values)			v4 Probability of Failure		v3 Probability of Failure
	Failures	Ignitions	Ignitions per Failure	Test AUC	Test Average Precision	Test AUC
Capacitor Bank	45	13	0.29	0.52	0.0049	n/a
DPD – Dynamic Protection Device	44	5.3	0.12	0.51	0.0054	n/a
Fuse	299	20.7	0.07	0.67	0.0053	n/a
Primary Conductor – Line Slap	108	7.8	0.07	0.68	0.0001	0.735
Primary Conductor – Wire down	1005	70	0.07	0.76	0.0022	
Primary Conductor – Other	438	23	0.05	0.76	0.0008	
Secondary Conductor	474	21	0.07	0.80	0.0006	0.706
Support Structure – Electrical Failure	467	103	0.22	0.76	0.0044	0.838
Support Structure – Structural Failure	667	26.6	0.04	0.69	0.0010	0.738
Switch	40	5	0.12	0.69	0.0015	n/a
Transformer - Failure	1,960	20.5	0.01	0.77	0.0121	0.632
Transformer - Leaking	56.4	0.1	0.002	0.78	0.0010	0.749
Voltage Regulator	30.6	2.7	0.09	0.62	0.0108	0.882
Other Equipment	7722	29	0.003	0.76	0.0002	0.755

3.5.1.1 Capacitor Bank Model

Parallel installed capacitor banks, also called shunt capacitors, provide power factor correction on longer distribution circuits. They respond to voltage levels by switching in or out of service to boost or buck (reduce) line voltage. Due to the stresses from switching, capacitor Banks have the potential to fail catastrophically with an explosion that leads to an ignition that is both a wildfire and a public safety concern. As documented in *Table 4*, Capacitor Banks have the highest historical ignition to failure rate of all modeled distribution assets.

3.5.1.1.1 Key Developments

Capacitor bank and voltage regulator failure events were bundled together in a common spatial model for v3 using the MaxEnt algorithm. For v4, capacitor bank and voltage regulator failure events are modeled separately. Additionally, the v3 spatial model approach was replaced with a time-series model for v4.

The time-series model upgrade was enabled by establishing capacitor bank asset history back to 2016 through an examination of annual snapshots of EDGIS asset data. By examining the historical asset data, failures could be traced back to specific equipment in service at the time of failure and the actual attributes of the failed equipment could in turn be used to train the model.

During model development there were some features that were explored, but not included as covariates in the final model:

- Open tags
- Seasonal meteorology data

3.5.1.1.2 Performance

Capacitor banks were the most challenging equipment asset type to model for v4. Despite training data quality improvements and multiple rounds of new feature experimentation, model performance, as shown in *Figure 4* and *Figure 5*, was very poor, with an AUC of only 0.52. In subsequent discussions with SMEs, it was noted that capacitor banks are regularly inspected every year and therefore do not have a replacement backlog or a maintenance tag backlog. The working theory is that the proactive maintenance of capacitor banks makes the failures more challenging to predict.

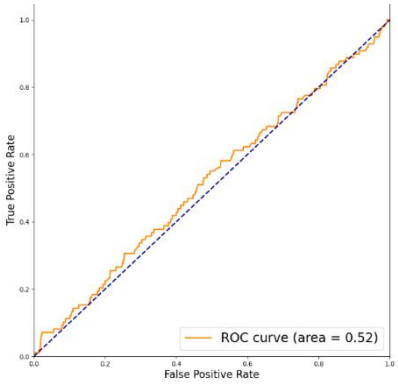


Figure 4 – Capacitor Bank ROC Curve

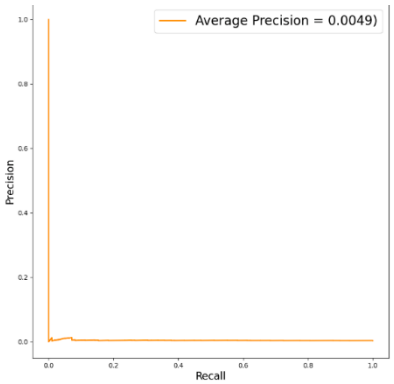


Figure 5 - Capacitor Bank Precision-Recall Curve

3.5.1.1.3 Model Data

The scope of the model was limited to overhead capacitor banks on the distribution system. On average, there were 45 capacitor bank failures and 13 ignitions during wildfire season between 2016 – 2022.

Table 5 – Capacitor Bank Event Summary

Capacitor Bank Event Counts				
	Training Data		Testing Data	
Year	Failures	Ignitions	Failures	Ignitions
2016	28	9	16	4
2017	29	10	19	4
2018	28	8	10	3
2019	27	13	10	2
2020	28	6	15	5
2021	38	8	19	4
2022	37	12	9	3
Totals	**215**	**66**	**98**	**25**

3.5.1.1.4 Algorithm Selection

During development, capacitor bank failure models were built using SparkML's Random Forest, Gradient Boosted Trees, Logistic Regression, and the Spark version of XGBoost. Ultimately, the XGBoost algorithm was selected for its predictive performance, built-in feature selection, ability to handle missing values, and speedy computation time.

3.5.1.1.5 Covariate Selection

Many capacitor bank attributes were tested as features in the model, but none showed major performance gains. *Figure 6* presents the total gains feature importance for the capacitor bank model. Top features include estimated asset age, asset total kVAR capacity, current transformer (CT) rating, supervisory control indicator (remote operation status), switch type, and asset switched off in the winter status.

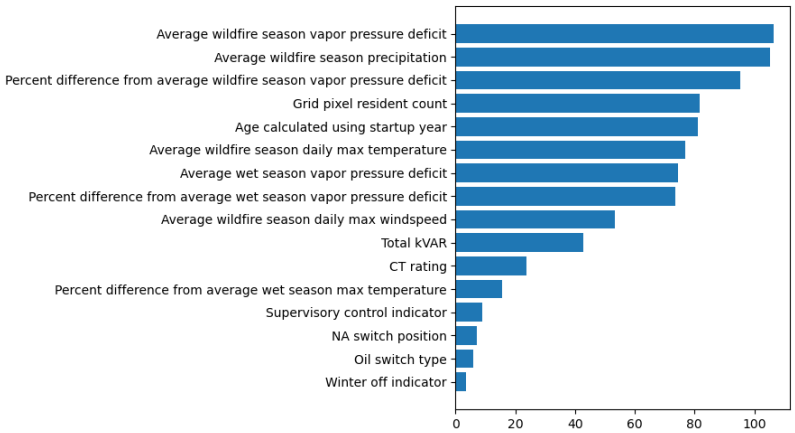


Figure 6 - Capacitor Bank Feature Importance

Figure 7 shows the SHAP plot for the capacitor bank model. Interpreting the plot, model prediction relationships can be understood and validated. For the capacitor banks, higher probability of failure was found to be correlated with:

- High max temperature values
- Low wildfire season precipitation
- High kVAR values
- Low vapor pressure deficits

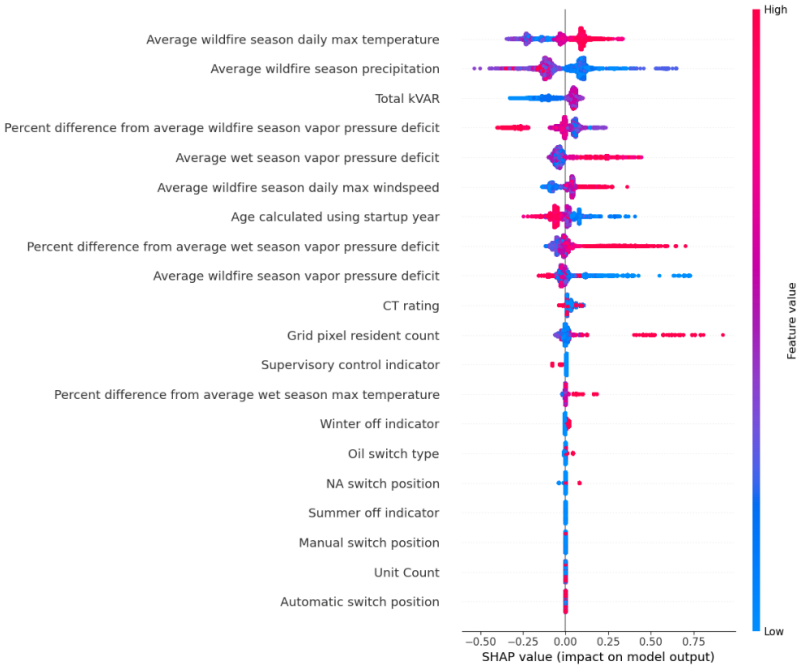


Figure 7 - Capacitor Bank SHAP Plot

3.5.1.1.6 Limitations and Opportunities

Capacitor banks have a very high ignition to failure rate. Therefore, it will be important to improve on the poor performance of the v4 probability of failure prediction model. Since the capacitor bank equipment attributes were not sufficient for predicting capacitor banks failures, new datasets will need to be investigated with SMEs. Switching history, historical loading, and distribution planning load flow (CYME) datasets are recommended for feature engineering in the future. Revisiting failure pathways with SMEs and potential data quality issues for capacitor bank records could be beneficial as well. If the machine learning model continues to perform poorly, a physics-based first principles model will be investigated.

3.5.1.2 DPD Equipment Model

Dynamic Protection Devices (DPD), which include line reclosers and sectionalizers, help protect the distribution system by opening when a fault is detected and attempt to reclose to re-establish service for momentary faults. Examples of DPD equipment failures include when the device malfunctions or the actuator board or controls do not operate as expected in response to a fault.

3.5.1.2.1 Key Developments

DPD equipment, conductor, switch, and fuse events were bundled together in a common spatial model for v3 using the MaxEnt algorithm. For v4, DPD equipment was modeled separately from conductors, switches, and fuses. Additionally, the v3 spatial model approach was replaced with a time-series model for v4.

The time-series model upgrade was enabled by establishing DPD asset history back to 2016 through an examination of annual snapshots of EDGIS asset data. By examining the historical asset data, failures could be traced back to specific equipment in service at the time of failure and the actual attributes of the failed equipment could in turn be used to train the model.

During model development there were some features that were explored, but not included as covariates in the final model:

- Open tags
- Seasonal meteorology data

3.5.1.2.2 Performance

DPD Equipment was a challenging equipment asset type to model for v4. Despite training data quality improvements and multiple rounds of new feature experimentation, model performance, as shown in *Figure 8* and *Figure 9*, was very poor, with an AUC of only 0.51.

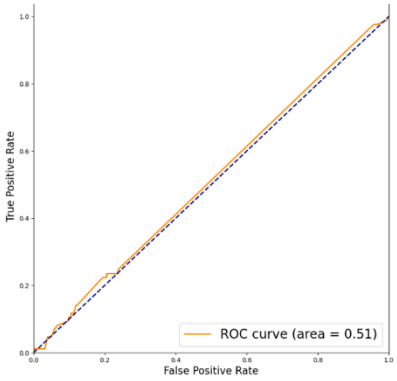


Figure 8 - DPD ROC Curve

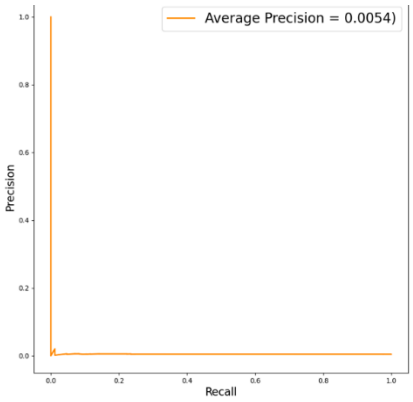


Figure 9 - DPD Precision-Recall Curve

3.5.1.2.3 Model Data

The scope of the model was limited to overhead DPD equipment on the distribution system. On average, there were 44 DPD failures and 5.3 ignitions during wildfire season between 2016 – 2022.

Table 6 - DPD Equipment Event Summary

DPD Event Counts				
	Training Data		Testing Data	
Year	Failures	Ignitions	Failures	Ignitions
2016	22	7	17	2
2017	33	2	12	1
2018	26	2	6	1
2019	43	8	18	4
2020	25	1	11	0
2021	34	7	8	2
2022	32	0	13	0
Totals	**215**	**27**	**85**	**10**

3.5.1.2.4 Algorithm Selection

During development DPD failure models were built using SparkML's Random Forest, Gradient Boosted Trees, Logistic Regression, and the Spark version of XGBoost. Ultimately, the XGBoost algorithm was selected for its predictive performance, built-in feature selection, ability to handle missing values, and speedy computation time.

3.5.1.2.5 Covariate Selection

Many DPD equipment attributes were tested as features in the model, with the relative humidity difference between the average wet season showing the most performance gains. *Figure 10* presents the total gains feature importance for the DPD equipment model. Equipment attributes experimented with during development included estimated asset age, fault duty, continuous current (CC) rating, maximum interrupting current, supervisory control indicator, bypass switch indicator, interrupting medium, device type, and open tags. Of these, the estimated asset age and fault duty were found to be meaningful additions to the model.

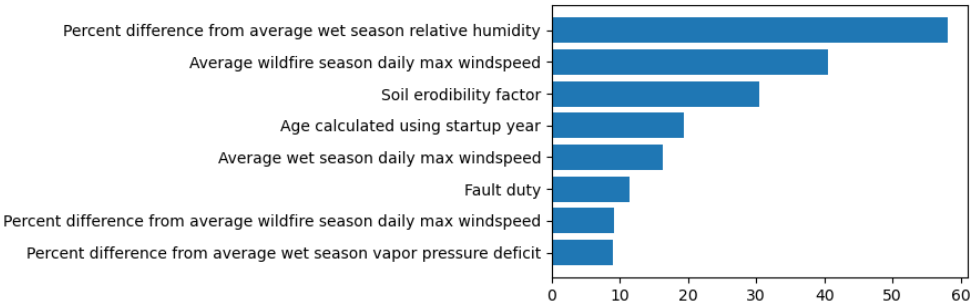


Figure 10 - DPD Feature Importance

Figure 11 shows the SHAP plot for the DPD equipment model. Interpreting the plot, model prediction relationships can be understood and validated. For the DPD equipment, higher probability of failure was found to be correlated with:

- High fire season max windspeed
- High wet season max windspeed
- Soil erodibility
- High estimated asset age

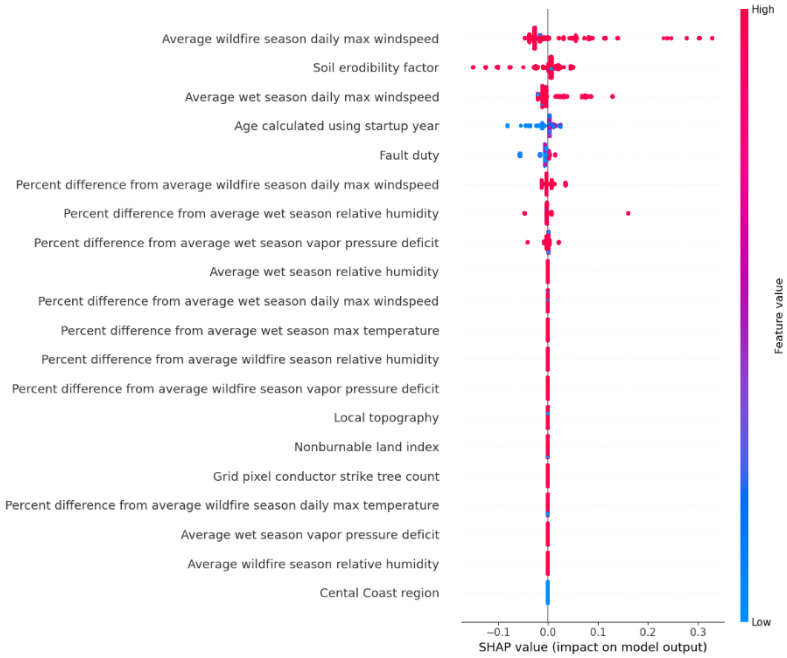


Figure 11 - DPD SHAP Plot

3.5.1.2.6 Limitations and Opportunities

Additional investigation in partnership with SMEs is needed to gain a deeper understanding of what causes DPD equipment to malfunction. This may help to identify new datasets and potential model features. Continuing DPD equipment record data quality improvements, additional failure event validation and consideration of separating out switch and bird guard related events could improve model performance.

3.5.1.3 Fuse Equipment Model

Fuses are electrical safety devices that can help protect the distribution system by preventing the flow of excessive electric current through the system.

3.5.1.3.1 Key Developments

DPD equipment, primary conductor, switch, and fuse events were bundled together in a common spatial model for v3 using the MaxEnt algorithm. For v4, fuses were modeled separately from conductors, DPDs, and switches. Additionally, the v3 spatial model approach was replaced with a time-series model for v4.

The time-series model upgrade was enabled by establishing fuse asset history back to 2016 through an examination of annual snapshots of Electrical Distribution GIS (EDGIS) asset data. By examining the historical asset data, failures could be traced back to specific equipment in service at the time of failure and the actual attributes of the failed equipment could in turn be used to train the model.

During model development there were some features that were explored, but not included as covariates in the final model:

- Open tags
- Seasonal meteorology data

3.5.1.3.2 Performance

The v4 Fuse failure model demonstrated moderately good model performance, as shown in *Figure 12* and *Figure 13*, with an AUC of 0.67.

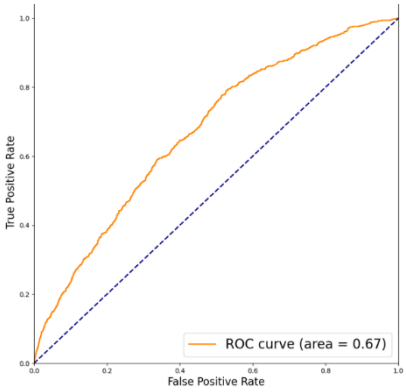


Figure 12 - Fuse ROC Curve

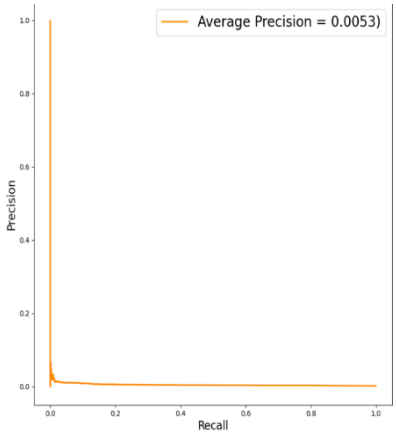


Figure 13 - Fuse Precision-Recall Curve

3.5.1.3.3 Model Data

The scope of the model was limited to overhead fuses on the distribution system. On average, there were 299 fuse failures and 20.7 ignitions during wildfire season between 2016 – 2022.

Table 7 - Fuse Equipment Event Summary

Fuse Event Counts				
	Training Data		Testing Data	
Year	Failures	Ignitions	Failures	Ignitions
2016	182	13	90	4
2017	223	26	104	13
2018	191	13	83	5
2019	184	16	93	9
2020	216	9	106	9
2021	203	14	94	5
2022	223	4	101	5
Totals	**1422**	**95**	**671**	**50**

3.5.1.3.4 Algorithm Selection

During development Fuse failure models were built using SparkML's Random Forest, Gradient Boosted Trees, Logistic Regression, and the Spark version of XGBoost. Ultimately, the XGBoost algorithm was selected for its predictive performance, built-in feature selection, ability to handle missing values, and speedy computation time.

3.5.1.3.5 Covariate Selection

Figure 14 presents the total gains top feature importance for the Fuse model performance. Top features include estimated fuse age, fuse link rating, corrosion zone status, average vapor pressure deficit, average relative humidity, and average operating voltage.

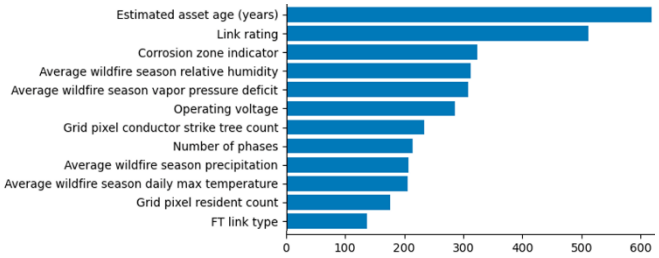


Figure 14 - Fuse Top Feature Importance

Other covariate features that moderately contribute to the Fuse model include:

- Percent difference from average wildfire season relative humidity
- Average wet season relative humidity
- Local topography
- Percent difference from average wet season max temperature
- Soil erodibility factor
- Percent difference from average wildfire season daily max temperature
- Percent difference from average wildfire season daily max windspeed
- Percent difference from average wildfire season daily vapor pressure deficit
- Average wet season vapor pressure deficit
- Percent difference from average wet season relative humidity
- Percent difference from average wet season daily max windspeed
- HFTD
- Complex device indicator
- Bypass switch indicator
- S&C manufacturer
- Percent difference from average wet season vapor pressure deficit

Figure 15 shows the SHAP plot for the Fuse model. Interpreting the plot, model prediction relationships can be understood and validated. For the Fuse equipment, higher probability of failure was found to be correlated with:

- High estimated fuse age
- Low link rating
- In corrosion zone
- Higher number of phases

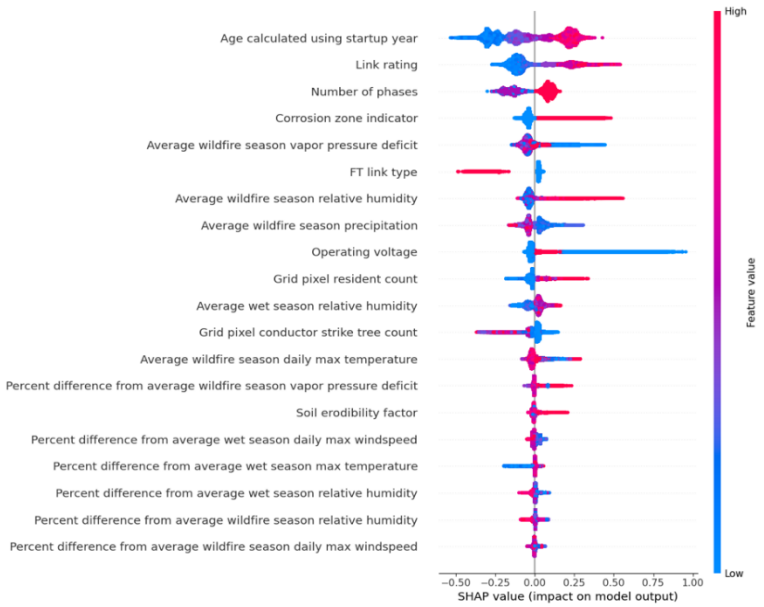


Figure 15 - Fuse SHAP Plot

3.5.1.3.6 Limitations and Opportunities

Future model development is expected to focus on SME collaboration to better understand why link rating and fuse age are so helpful for predicting fuse failures.

During v4 development, it was observed that a notable portion of failed fuses were not mapped in EDGIS until their year of failure. This observation will need to be followed up with EDGIS personnel to understand the current maturity of mapping fuses for the distribution system.

3.5.1.4 Primary Overhead Conductor Models

Primary overhead conductors play a crucial role in delivering electricity safely and reliably to customers. The primary conductors are the system spans of conductor phases that transport electricity from substations to distribution transformers.

Primary overhead conductor, DPD equipment, switch, and fuse events were bundled together in a common spatial model for v3 using the MaxEnt algorithm. For v4, Primary overhead conductor failures were modeled separately from fuses, DPDs, and switches. The v3 spatial model approach was replaced with a time-series model for v4 that estimates the likelihood of failure at the nearest pole for the 2023 wildfire season. In addition, the primary overhead conductor failures were separated and developed into three distinct causal models for v4:

- Line Slap – for line slap event failures
- Wire Down – for line to ground failures
- Other – jumper, riser and unknown cause failures

3.5.1.4.1 Primary Overhead Conductor – Line Slap

Primary overhead conductor line slap failures can occur from wind or fault current events that result in two conductor phases becoming physically close enough to cause arcing or sparking which could result in an ignition event. A line slap event can also cause annealing on the conductor which accelerates conductor deterioration and increase the future likelihood of a wire down event.

3.5.1.4.1.1 Key Developments

The Primary Overhead Conductor – Line Slap model was developed as a time-series model for v4, replacing the v3 spatial model for combined primary overhead conduct, DPD, fuse, and switch events.

The time-series model upgrade was enabled by establishing primary overhead conductor asset history back to 2016 through an examination of annual snapshots of Electrical Distribution GIS (EDGIS) asset data. By examining the historical asset data, line slap failures could be traced back to the nearest pole in service at the time of failure. Tracing conductor failures directly to conductor spans was infeasible as historically failure events are typically recorded at the pole.

Several features were explored during model development, including:

- CYME software fault duty analysis
- Observed splices
- Covered conductor status
- LiDAR span data
- Output from the Finite Element Analysis (FEA) model developed by PG&E's Applied Technology Services (ATS) covering:
  - Wind scenarios
  - Fault current scenarios
- Open repair tags
- Seasonal meteorology data

3.5.1.4.1.2 Performance

The new v4 line slap failure model demonstrated moderately good model performance, as shown in *Figure 16* and *Figure 17*, with an AUC of 0.68.

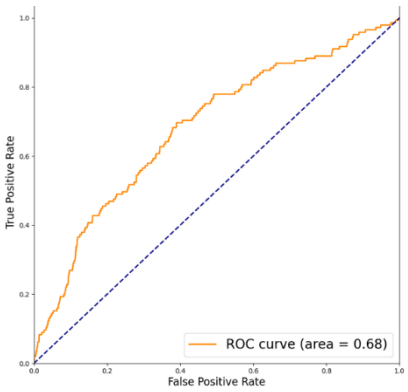


Figure 16 - Line Slap ROC Curve

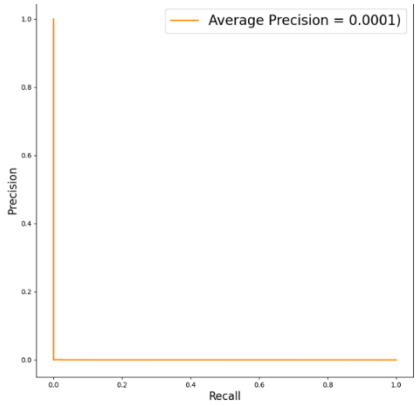


Figure 17 – Line Slap Precision-Recall Curve

3.5.1.4.1.3 Model Data

The scope of the model was limited to overhead conductor line slap events on the distribution system. On average, there were 108 line slap failures and 7.8 ignitions during wildfire season between 2019 – 2022.

Table 8 - Primary Conductor - Line Slap Event Counts

Line Slap Event Counts				
	Training Data		Testing Data	
Year	Failures	Ignitions	Failures	Ignitions
2019	70	3	47	0
2020	57	5	32	0
2021	107	15	45	5
2022	52	2	21	1
Totals	**286**	**25**	**145**	**6**

3.5.1.4.1.4 Algorithm Selection

During development Primary Overhead Conductor – Line Slap models were built using SparkML's Random Forest, Gradient Boosted Trees, Logistic Regression, and the Spark version of XGBoost. Ultimately, the XGBoost algorithm was selected for its predictive performance, built-in feature selection, ability to handle missing values, and speedy computation time.

3.5.1.4.1.5 Covariate Selection

Figure 18 presents the total gains top feature importance for the Primary Conductor – Line Slap model performance. Top features include conductor count, conductor length, max conductor weight, minimum conductor cross sectional area, pole height, and wind speed.

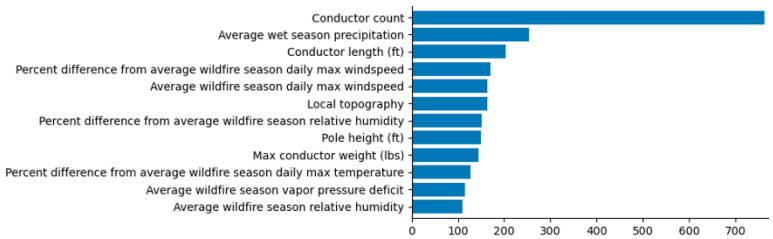


Figure 18 - Primary Condcutor - Line Slap Top Feature Importance

Other covariate features that moderately contribute to the Line Slap model include:

- Grid pixel resident count
- Percent difference from average wet season daily max windspeed
- Percent difference from average wet season vapor pressure deficit
- Average wildfire season daily max temperature
- Percent difference from average wildfire season vapor pressure deficit
- ATS FEA 3000A fault line slap risk
- Average wet season vapor pressure deficit
- Conductor max sag
- Min conductor cross section area
- Grid pixel conductor strike tree count
- Max conductor ultimate strength
- Soil erodibility factor
- Percent difference from average wet season max temperature
- Asset age
- Conductor spacing
- Percent difference from average wet season relative humidity
- Pole elevation
- Average wet season relative humidity
- ATS FEA 60-90 mph wind line slap risk
- Operating voltage
- CYME software fault duty analysis
- Triangular construction type

Figure 19 shows the SHAP plot for the Line Slap model. Interpreting the plot, model prediction relationships can be understood and validated. For the Line Slap cause, higher probability of failure was found to be correlated with:

- Lower conductor phase distances during high winds (FEA prediction)
- Higher conductor count
- Higher conductor max sag
- Higher conductor length
- Pole height
- Higher wet season precipitation

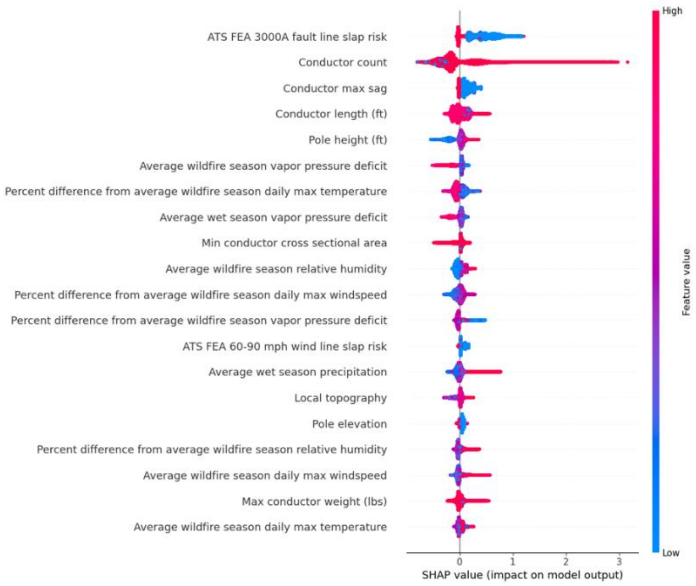


Figure 19 - Primary Conductor - Line Slap SHAP Plot

3.5.1.4.1.6 Limitations and Opportunities

Several initiatives could be pursued to improve the Line Slap model performance for future releases. Several new datasets were acquired during line slap model development. Therefore, another round of data cleanup and feature engineering would likely yield performance gains. Likewise, further review of historical primary conductor event records could identify additional line slap events to use for model training. Identifying additional training events could have a significant performance impact as the line slap event sample size is small in comparison to other primary conductor failure modes. Finally, additional feature engineering with meteorological data, especially wind gusts, could be explored.

3.5.1.4.2 Primary Overhead Conductor – Wire Down

Primary overhead conductor wire down failures are events where a primary wire has fallen or is no longer properly secured. Wire down events can be caused by equipment issues such as the improper installation of a conductor, a connector, or a splice and be degradation issues such as corrosion.

Note that object contacts that result in a wire down event are ***not*** included in the primary overhead conductor wire down model. All contact events are assigned to one of the Contact From Object models as described in Section *3.5.2*.

3.5.1.4.2.1 Key Developments

The Primary Overhead Conductor – Wire Down model was developed as a time-series model for v4, replacing the v3 spatial model for combined primary overhead conductor, DPD, fuse, and switch events.

The time-series model upgrade was enabled by establishing primary overhead conductor asset history back to 2016 through an examination of annual snapshots of Electrical Distribution GIS (EDGIS) asset data. By examining the historical asset data, wire down failures could be traced back to the nearest pole in service at the time of failure. Tracing conductor failures directly to conductor spans was infeasible as historically failure events are typically recorded at the pole.

Several features were explored during model development, including:

- CYME software fault duty analysis
- Observed splices
- Covered conductor status
- LiDAR span data
- Output from the Finite Element Analysis (FEA) model developed by PG&E's Applied Technology Services (ATS) covering:
  - Wind scenarios
  - Fault current scenarios
- Open repair tags
- Seasonal meteorology data

3.5.1.4.2.2 Performance

The new v4 wire down failure model demonstrated very good model performance, as shown in *Figure 20* and *Figure 21*, with an AUC of 0.76.

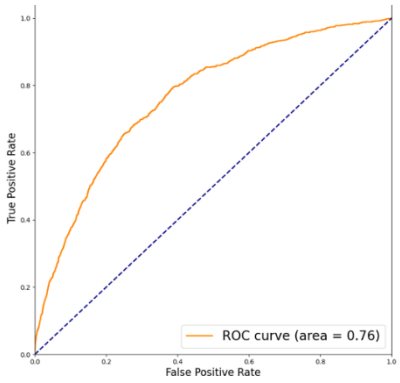


Figure 20 - Wire Down ROC Curve

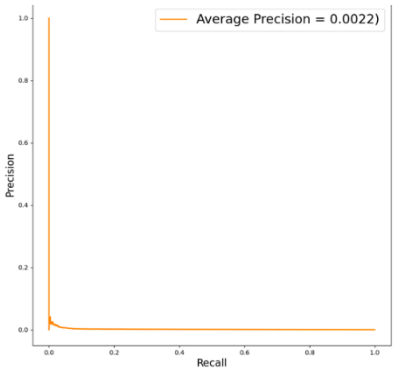


Figure 21 - Wire Down Precision-Recall Curve

3.5.1.4.2.3 Model Data

The scope of the model was limited to overhead conductor wired down events on the distribution system that were not caused by object contact. On average, there were 1005 wire down failures and 70 ignitions during wildfire season between 2019 – 2022.

Table 9 - Primary Conductor - Wire Down Event Counts

Wire Down Event Counts				
	Training Data		Testing Data	
Year	Failures	Ignitions	Failures	Ignitions
2019	687	42	224	18
2020	649	59	211	18
2021	887	54	311	23
2022	799	50	250	17
Totals	**3022**	**205**	**996**	**76**

3.5.1.4.2.4 Algorithm Selection

Primary conductor wire down events were modeled using SparkML's Random Forest, Gradient Boosted Trees and the spark version of XGBoost. Ultimately, the XGBoost algorithm was selected for its predictive performance, built-in feature selection, ability to handle missing values, and speedy computation time.

3.5.1.4.2.5 Covariate Selection

Figure 22 presents the total gains top feature importance for the Primary Conductor – Wire Down model performance. Top features include conductor count, non-burnable land index, conductor length, max conductor weight, minimum conductor cross sectional area, and height.

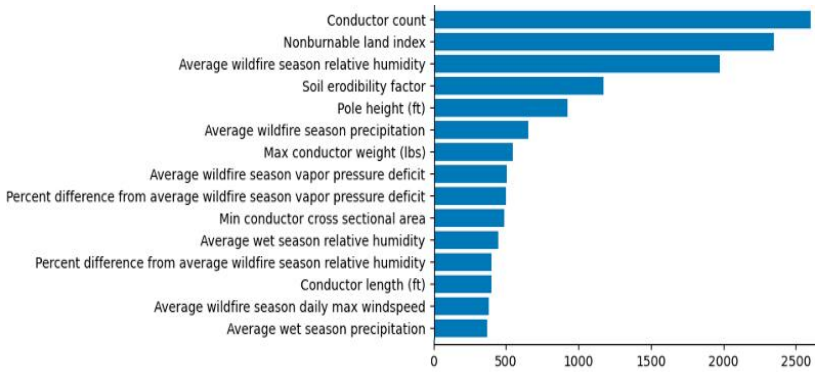


Figure 22 - Primary Conductor - Wire Down Top Feature Importance

Other covariate features that moderately contribute to the Wire Down model include:

- Percent difference from average wildfire season daily max temperature
- Average wet season vapor pressure deficit
- Asset age
- Average wildfire season daily max temperature
- Average wet season daily max temperature
- Coastal indicator
- Percent difference from average wildfire season daily max windspeed
- Max conductor ultimate strength
- Grid pixel conductor strike tree count
- Corrosion zone indicator
- ATS FEA 3000A fault line slap risk
- Percent difference from average wet season max temperature
- Conductor max sag
- Percent difference from average wet season relative humidity
- Percent difference from average wet season daily max windspeed
- Local topography
- Percent difference from average wet season vapor pressure deficit
- CYME software fault duty analysis
- ATS FEA 60-90 mph wind line slap risk
- Operating voltage
- Open tag indicator
- Pole elevation
- Splice observed indicator

Figure 23 shows the SHAP plot for the Wire Down model. Interpreting the plot, model prediction relationships can be understood and validated. For the wire down cause, higher probability of failure was found to be correlated with:

- Higher conductor counts
- Fire season humidity, probably as a proxy for coastal areas linked to corrosion.
- Higher pole heights
- Older conductor ages

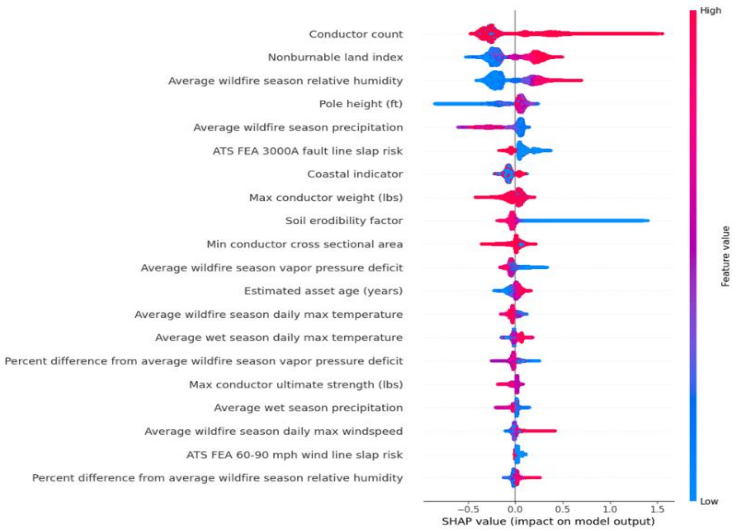


Figure 23 - Primary Conductor - Wire Down SHAP Plot

3.5.1.4.2.6 Limitations and Opportunities

Several initiatives could be pursued to improve the Wire Down model performance for future releases. Several new datasets were acquired during wire down model development. Therefore, another round of data cleanup and feature engineering would likely yield additional performance gains. Likewise, further review of historical primary conductor event records could identify additional wire down events to use for model training. Identifying additional training events could help improve model precision. Finally, additional feature engineering with meteorological data, especially identify areas prone to corrosion, could be explored.

3.5.1.4.3 Primary Conductor – Other

The Primary Conductor – Other model is developed using conductor failures that are not classified as line slap or wired down. Typically, these events include equipment issues related to risers and jumpers as well as conductor-related incidents where the source of failure may have been difficult to identify.

3.5.1.4.3.1 Key Developments

The Primary Overhead Conductor – Other model was developed as a time-series model for v4, replacing the v3 spatial model for combined primary overhead conductor, DPD, fuse, and switch events.

The time-series model upgrade was enabled by establishing primary overhead conductor asset history back to 2016 through an examination of annual snapshots of Electrical Distribution GIS (EDGIS) asset data. By examining the historical asset data, wire down failures could be traced back to the nearest pole in service at the time of failure. Tracing conductor failures directly to conductor spans was infeasible as historically failure events are typically recorded at the pole.

Several features were explored during model development, including:

- CYME software fault duty analysis
- Observed splices
- Covered conductor status
- LiDAR span data
- Output from the Finite Element Analysis (FEA) model developed by PG&E's Applied Technology Services (ATS) covering:
  - Wind scenarios
  - Fault current scenarios
- Open repair tags
- Seasonal meteorology data

3.5.1.4.3.2 Performance

The new v4 other failure model demonstrated very good model performance, as shown in *Figure 24* and *Figure 25*, with an AUC of 0.76.

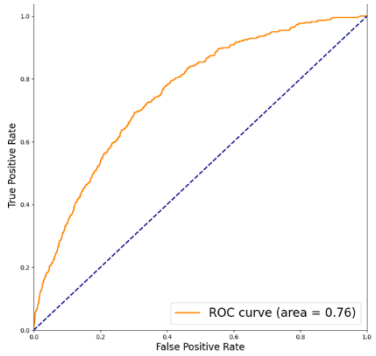


Figure 24 - Primary Conductor - Other ROC Curve

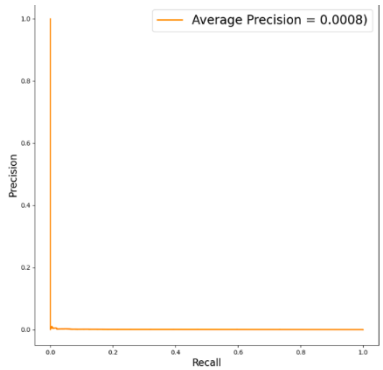


Figure 25 - Primary Conductor - Other Precision-Recall Curve

3.5.1.4.3.3 Model Data

The scope of the model was limited to primary overhead conductor events on the distribution system that were not included in either the Line Slap or Wire Down models. On average, there were 438 other event failures and 23 ignitions during wildfire season between 2019 – 2022.

Table 10 - Primary Conductor - Other Equipment Event Counts

Other Event Counts				
	Training Data		Testing Data	
Year	Failures	Ignitions	Failures	Ignitions
2019	296	20	93	6
2020	325	25	111	4
2021	369	14	113	5
2022	323	13	121	5
Totals	**1313**	**72**	**438**	**20**

3.5.1.4.3.4 Algorithm Selection

Primary conductor wire down events were modeled using SparkML's Random Forest, Gradient Boosted Trees and the spark version of XGBoost. Ultimately, the XGBoost algorithm was selected for its predictive performance, built-in feature selection, ability to handle missing values, and speedy computation time.

3.5.1.4.3.5 Covariate Selection

Figure 26 presents the total gains top feature importance for the Primary Conductor – Other model performance. Top features include conductor count, non-burnable land index, conductor length, soil erodibility factor, humidity, precipitation, and pole height.

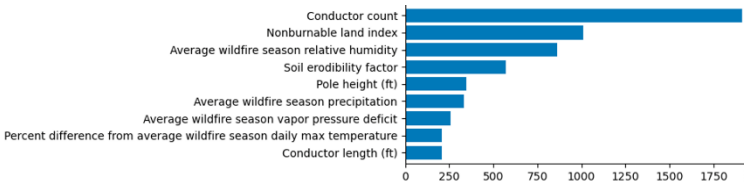


Figure 26 - Primary Conductor - Other Top Feature Importance

Other covariate features that moderately contribute to the Primary Conductor – Other model include:

- Max conductor weight
- Percent difference from average wildfire season vapor pressure deficit
- Average wildfire season daily max windspeed
- Average wet season precipitation
- Asset age
- Percent difference from average wet season relative humidity
- Coastal indicator
- Percent difference from average wet season vapor pressure deficit
- Grid pixel conductor strike tree count
- Average wet season relative humidity
- Average wildfire season daily max temperature
- Percent difference from average wet season max temperature
- Percent difference from average wildfire season daily max windspeed
- Average wet season vapor pressure deficit
- Percent difference from average wildfire season relative humidity
- Local topography
- Percent difference from average wet season daily max windspeed
- Conductor max sag
- Min conductor cross sectional area
- Average wet season daily max temperature
- Triangular construction type
- CYME software fault duty analysis
- Neutral indicator

Figure 27 shows the SHAP plot for the Primary Conductor - Other model. Interpreting the plot, model prediction relationships can be understood and validated. For the other conductor cause, higher probability of failure was found to be correlated with:

- Higher conductor counts
- Non-burnable index, probably as a proxy for urban/non-urban areas
- Fire season humidity, probably as a proxy for coastal areas linked to corrosion.
- Coastal indicator
- Older conductor ages
- Lower fire season vapor pressure deficits

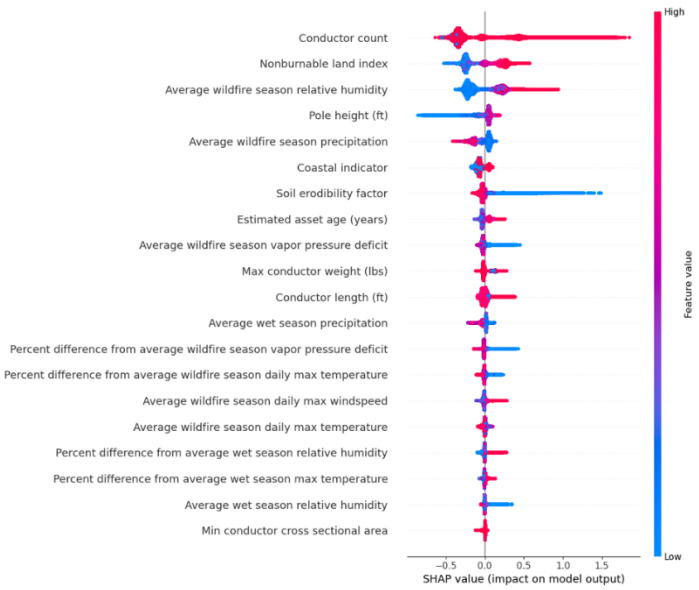


Figure 27 - Primary Conductor - Other SHAP PLot

3.5.1.4.3.6 Limitations and Opportunities

Several initiatives could be pursued to improve the Primary Conductor - Other model performance for future releases. Several new datasets were acquired during model development. Therefore, another round of data cleanup and feature engineering would likely yield performance gains. Likewise, further review of historical primary conductor event records could identify and remove line slap and wire down events to use for model training. Cleaning out line slap and wire down events could in turn help improve Other model performance. Finally, additional feature engineering with meteorological data, especially identify areas prone to corrosion, could be explored.

3.5.1.5 Secondary Conductor Model

The Secondary Conductor equipment model uses historical failure events and spatial environmental data to model future fire season outage probabilities of low voltage secondary conductor assets.

3.5.1.5.1 Key Developments

The Secondary Conductor v4 model is a refresh of the v3 model. The only significant update was the addition of 2023 failures to the event training dataset.

3.5.1.5.2 Performance

The v4 Secondary Conductor outage model demonstrated good model performance with an AUC of 0.78 as shown in *Figure 28*. This was an improvement from the v3 AUC of 0.70

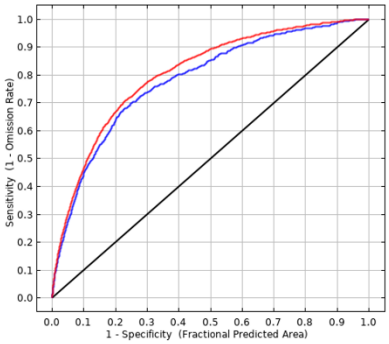


Figure 28 - Secondary Conductor ROC Curve

3.5.1.5.3 Model Data

Table 11 presents a summary of event counts used for v4 development:

Table 11 - Secondary Conductor Event Summary

Event Type	Value
Outage Count	3318
Ignition Count	223
Ignitions Per Outage	0.0672

3.5.1.5.4 Algorithm Selection

The MaxEnt algorithm, which was used for v3, was retained for v4 due to its ability to analyze presence only events and preserve spatial interactions during model optimization.

3.5.1.5.5 Covariate Selection

Figure 29 presents the total gains feature importance that account for 95% of the Secondary Conductor model performance. Top features include strike tree counts, the impervious and non-burnable land indices that indicate urban environments, and strike tree height.

There are numerous additional covariate features that marginally contribute to the Other

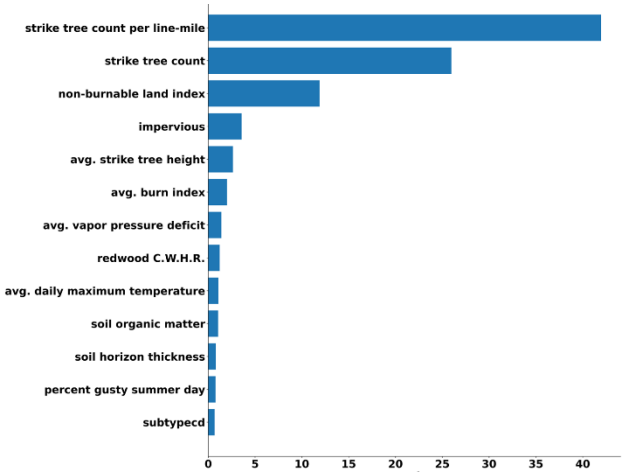


Figure 29 - Secondary Conductor Top Feature Performance

Equipment model, accounting for the remaining 5% of model performance:

- eucalyptus CWHR
- maximum strike tree height
- maximum wind speed
- avg. 100-hr fuels
- windy summer day percentage
- tier-2
- valley oak woodland CWHR
- minimum strike tree height
- montane hardwood CWHR
- soil slope
- available soil water capacity
- soil permeability
- coastal oak woodland CWHR
- annual soil flood frequency
- local topography
- canopy density
- tree species
- eastside pine CWHR
- ponderosa pine CWHR
- is soil hydric
- soil clay content
- operating voltage
- montane hardwood CWHR
- blue oak woodland CWHR
- avg. specific humidity
- soil hydro-group
- avg. precipitation
- aspen CWHR
- montane riparian CWHR
- closed cone pine cypress CWHR
- avg. wind speed
- avg. energy release

3.5.1.5.6 Limitations and Opportunities

Alternative deep learning algorithms such as Recurrent Neural Networks and Transformers are being investigated for future releases to improve the Secondary Conductor model with temporal dependencies in addition to the modeled spatial dependencies.

3.5.1.6 Support Structure Model

Support Structures physically support and maintain the alignment and positioning of distribution asset infrastructure. Support structure failures were modeled by asset for v3 using a time series algorithm, though the asset results were mapped to pixels for aggregation and compositing to circuit segments. The two causal failure models were refreshed for v4:

- Equipment Failure – any structural failure of a pole or its crossarms
- Electrical Failure – insulator or crossarm contamination, tracking, and other electrical issues

Similar to v3, the v4 scope of the Support Structure models is limited to wood poles only.

3.5.1.6.1 Support Structure – Electrical Failure Model

Support Structure electrical failures often result from contamination on crossarms and insulators that eventually leads to tracking and arcing particularly for older and cracked insulators. The failures frequently result in an ignition, but not necessarily an outage, making failures both a wildfire and a public safety concern. Fortunately, these ignitions are typically contained to the top of the pole and do not result in a fire large enough to be CPUC-reportable.

3.5.1.6.1.1 Key Developments

Key developments for the Support Structure – Electrical Failure model include:

- The electrical failure events training data set used for v3, which covered fire season events from 2016 through 2021, was updated to include the 2022 failure events for v4 model development.
- Seasonal meteorology attributes were developed as new model features for v4. Otherwise, the v4 model was mostly a refresh of the v3 model with updated failures and attributes data.
- Electrical failure probabilities and risks are estimated at the asset level for v4 and subsequently aggregated and composited through asset to conductor relationships to produce more accurate v4 circuit segment failure probability and risk values. While electrical failures were also modeled at an asset level for v3, the asset level results were converted into spatial pixel values for circuit segment aggregation and compositing. The v3 spatial aggregation frequently resulted in the electrical failure probability and risk for any given support structure being shared equally with every conductor asset that occupied the same pixel as the support structure. As a result, the real failure probability and risk values for multiple conductors passing through a single spatial pixel could be higher or lower than the reported aggregated values.

3.5.1.6.1.2 Performance

The new v4 Support Structure – Electrical failure model demonstrated very good model performance, as shown in *Figure 30* and *Figure 31*, with an AUC of 0.76.

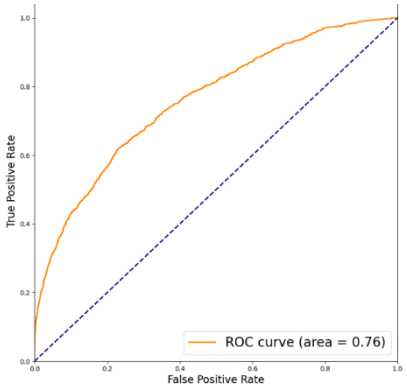


Figure 30 - Support Structure - Electrical ROC Curve

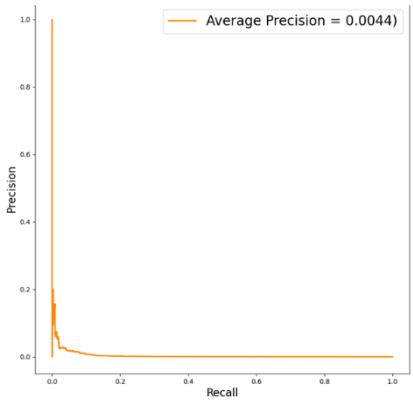


Figure 31 - Support Structure - Electrical Precision-Recall Curve

3.5.1.6.1.3 Model Data

The scope of the model was limited to wooden support structures on the distribution system. On average, there were 467 electrical support structure failures and 103 ignitions during wildfire season between 2016 – 2022.

Table 12 - Support Structure - Electrical Event Summary

Electrical Event Counts				
	Training Data		Testing Data	
Year	Failures	Ignitions	Failures	Ignitions
2016	266	24	110	9
2017	306	19	108	8
2018	284	25	101	12
2019	241	18	91	10
2020	278	40	117	17
2021	632	272	270	109
2022	322	102	146	56
Totals	**2329**	**500**	**943**	**221**

3.5.1.6.1.4 Algorithm Selection

During development Support Structure – Electrical failure models were built using SparkML's Random Forest, Gradient Boosted Trees, Logistic Regression, and the Spark version of XGBoost. Ultimately, the XGBoost algorithm was selected for its predictive performance, built-in feature selection, ability to handle missing values, and speedy computation time.

3.5.1.6.1.5 Covariate Selection

Figure 32 presents the total gains top feature importance for the Support Structure – Electrical model performance. Top features include pole volume, age, humidity, non-burnable land index, precipitation, and tree count.

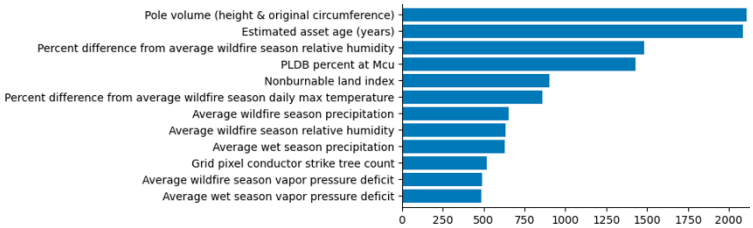


Figure 32 - Support Structure - Electrical Top Feature Importance

Other covariate features that moderately contribute to the Electrical failure model include:

- East Bay division
- Average wildfire season daily max windspeed
- Percent difference from average wet season relative humidity
- Percent difference from average wildfire season daily max windspeed
- Corrosion zone indicator
- Local topography
- Western Red Cedar pole species
- Percent difference from average wet season vapor pressure deficit
- Grid pixel resident count
- Soil annual flood frequency
- Average wet season relative humidity
- Average wildfire season daily max temperature
- Years since last PT&T inspection
- Mission division
- North Bay division
- Soil erodibility factor
- Percent difference from average wildfire season vapor pressure deficit
- Peninsula division
- Gas as original treatment type
- Sacramento division
- Unknown original treatment type
- San Francisco division
- Sierra division
- Not Available pole species
- Penta as original treatment type
- Central Coast division
- Pole attachment count

Figure 33 shows the SHAP plot for the Support Structure – Electrical failure model. Interpreting the plot, model prediction relationships can be understood and validated. For the support structures, higher probability of electrical failure was found to be correlated with:

- Low pole volumes
- High asset age
- Higher difference from average relative humidity

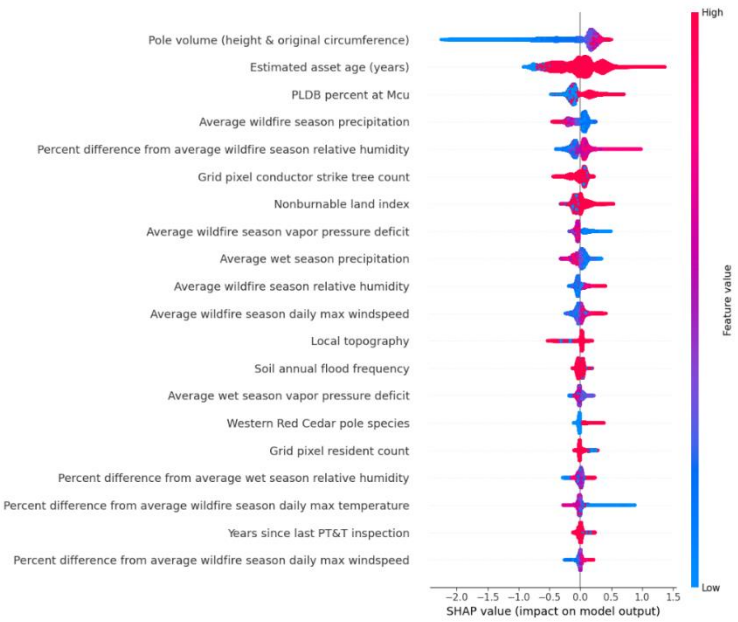


Figure 33- Support Structure - Electrical SHAP Plot

3.5.1.6.1.6 Limitations and Opportunities

As mentioned previously, the Support Structure model scope for v4 only considers wood poles. Work planners have frequently asked for the model coverage to be extended to include steel, concrete, and other types of poles as well.

Several initiatives could be pursued to improve the electrical failure model performance for future releases by exploring potential new model features, including:

- Large rain event identification – can wash away contamination
- Fog event identification – trigger tracking and arcing events
- Time-based air quality – predict contamination on insulators and crossarms
- Insulator type – identify insulators that are more prone to tracking and contamination

3.5.1.6.2 Support Structure – Structural Failure Model

Structural support structure failures occur when the support structure experiences a physical failure to the pole or its crossarm(s) and are often triggered by wind events. Structural failures have a low ignition to failure rate compared to other assets but often present a significant public safety issue. Typically, structural failures are the result of a pole ageing or decaying to the point where it can no longer carry its overhead equipment load. Decay is often accelerated when there is cycling between wet and dry soil in the subsurface portion of the pole.

3.5.1.6.2.1 Key Developments

Key developments for the Support Structure – Structural Failure model include:

- The structural failure events training data set used for v3, which covered fire season events from 2016 through 2021, was updated to include the 2022 failure events for v4 model development.
- Seasonal meteorology attributes were developed as new model features for v4. Otherwise, the v4 model was mostly a refresh of the v3 model with updated failures and attributes data.
- Structural failure probabilities and risks are estimated at the asset level for v4 and subsequently aggregated and composited through asset to conductor relationships to produce more accurate v4 circuit segment failure probability and risk values. While structural failures were also modeled at an asset level for v3, the asset level results were converted into spatial pixel values for circuit segment aggregation and compositing. The v3 spatial aggregation frequently resulted in the structural failure probability and risk for any given support structure being shared equally with every conductor asset that occupied the same pixel as the support structure. As a result, the real failure probability and risk values for multiple conductors passing through a single spatial pixel could be higher or lower than the reported aggregated values.

3.5.1.6.2.2 Performance

The new v4 Support Structure – Structural failure model demonstrated good model performance, as shown in *Figure 34* and *Figure 35*, with an AUC of 0.69.

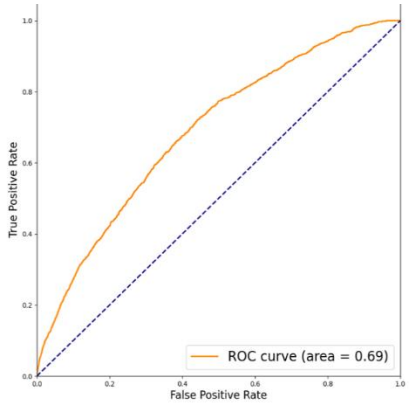


Figure 34 - Support Structure - Structural ROC Curve

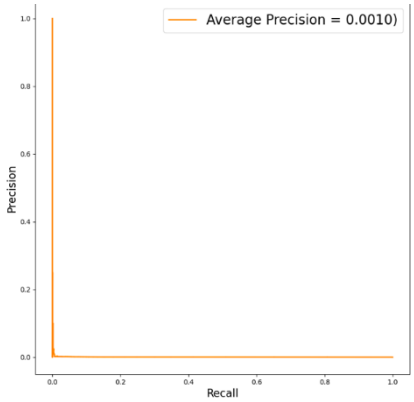


Figure 35 - Support Structure - Structural Precision-Recall Curve

3.5.1.6.2.3 Model Data

The scope of the model was limited to wooden support structures on the distribution system. On average, there were 667 structural support structure failures and 26.6 ignitions during wildfire season between 2016 – 2022.

Table 13 - Support Structure - Structural Event Summary

Structural Event Counts				
	Training Data		Testing Data	
Year	Failures	Ignitions	Failures	Ignitions
2016	299	3	132	2
2017	365	5	169	2
2018	414	58	183	22
2019	518	11	203	2
2020	418	20	230	11
2021	625	33	238	8
2022	622	5	255	4
Totals	**3261**	**135**	**1410**	**51**

3.5.1.6.2.4 Algorithm Selection

During development Support Structure – Structural failure models were built using SparkML's Random Forest, Gradient Boosted Trees, Logistic Regression, and the Spark version of XGBoost. Ultimately, the XGBoost algorithm was selected for its predictive performance, built-in feature selection, ability to handle missing values, and speedy computation time.

3.5.1.6.2.5 Covariate Selection

Figure 36 presents the total gains top feature importance for the Support Structure – Structural model performance. Top features include pole volume, pole age, pole strength, humidity, non-burnable land index, precipitation, and windspeed.

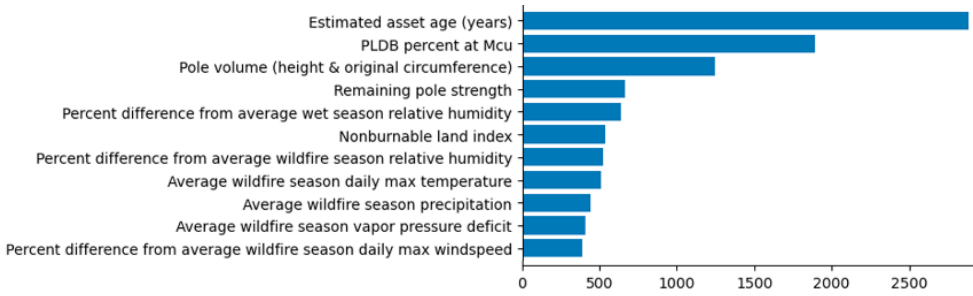


Figure 36 - Support Structure - Structural Top Feature Importance

Other covariate features that moderately contribute to the Structural failure model include:

- Average wildfire season relative humidity
- Difference between PT&T measured and original circumference
- Years since last PT&T inspection
- Percent difference from average wildfire season vapor pressure deficit
- Average wildfire season daily max windspeed
- Percent difference from average wildfire season daily max temperature
- Soil erodibility factor
- Average wet season relative humidity
- Average wet season precipitation
- Average wet season vapor pressure deficit
- Percent difference from average wet season vapor pressure deficit
- Unknown pole species
- Local topography * soil erodibility factor
- Open tag indicator
- Unknown original treatment type
- Grid pixel conductor strike tree count
- Soil annual flood frequency
- Local topography
- Penta as original treatment type
- Corrosion zone indicator

Figure 37 shows the SHAP plot for the Support Structure – Structural failure model. Interpreting the plot, model prediction relationships can be understood and validated. For the support structures, higher probability of structural failure was found to be correlated with:

- Low remaining pole strength
- Low percent at Mcu
- High asset age

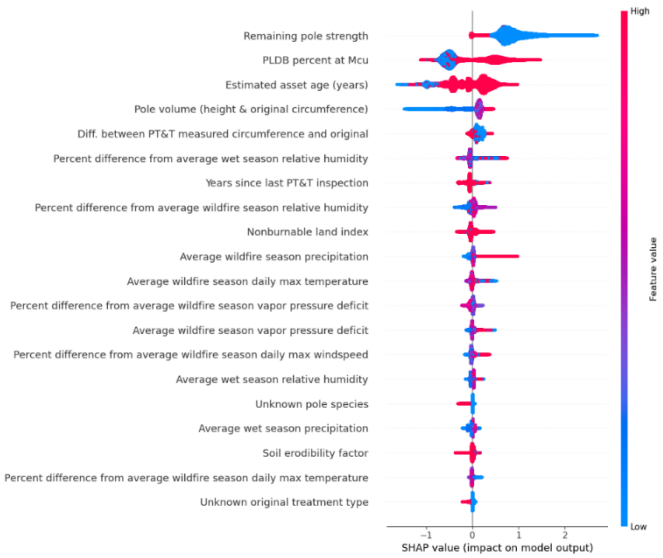


Figure 37 - Support Structure - Structural SHAP Plot

3.5.1.6.2.6 Limitations and Opportunities

As mentioned previously, the Support Structure model scope for v4 only considers wood poles. Work planners have frequently asked for the model coverage to be extended to include steel, concrete, and other types of poles as well.

Several initiatives could be pursued to improve the structural failure model performance for future releases by updating the model features, including:

- Additional data cleaning of the pole test and treat data set
- Testing removal of highly correlated features, especially meteorological features
- Additional data cleaning of structural failure events, with potential separation of:
  - Pole failure events
  - Crossarm failure events
  - Guywire failure events

3.5.1.7 Switch Equipment Model

Switches are devices that are used to control the flow of electricity in the network by opening or closing a section of a circuit. A switch can also serve to separate two different substation feeds. Switches are essential both for normal, emergency, and maintenance operations of the distribution network. Switches can fail from the loosening of hardware, causing operational problems of the switch, insulator breakage, or failed connectors. Switches have a relatively high ignition to failure rate when compared with other distribution assets.

3.5.1.7.1 Key Developments

Fuse, DPD equipment, primary conductor, and switch events were bundled together in a common spatial model for v3 using the MaxEnt algorithm. For v4, Switches were modeled separately from fuses, conductors, and DPDs. Additionally, the v3 spatial model approach was replaced with a time-series model for v4.

The time-series model upgrade was enabled by establishing switch asset history back to 2016 through an examination of annual snapshots of Electrical Distribution GIS (EDGIS) asset data. By examining the historical asset data, failures could be traced back to specific equipment in service at the time of failure and the actual attributes of the failed equipment could in turn be used to train the model.

During model development there were some features that were explored, but not included as covariates in the final model:

- Open tags
- Seasonal meteorology data

3.5.1.7.2 Performance

The v4 Switch failure model demonstrated a moderately good model performance, as shown in *Figure 38* and *Figure 39*, with an AUC of 0.67.

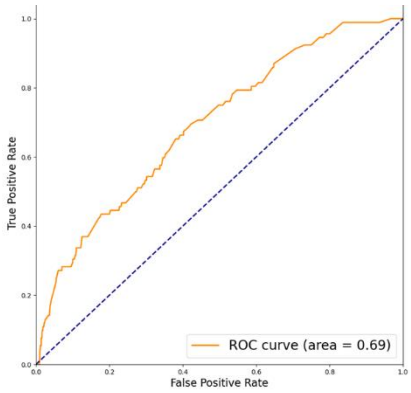


Figure 38 - Switch ROC Curve

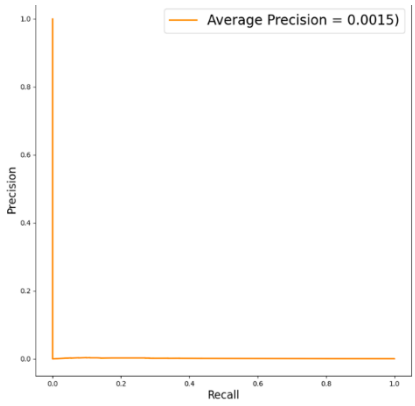


Figure 39 - Switch Precision-Recall Curve

3.5.1.7.3 Model Data

The scope of the model was limited to overhead switches on the distribution system. On average, there were 40 switch failures and 5 ignitions during wildfire season between 2016 – 2022.

Table 14 - Switch Equipment Event Summary

Switch Event Counts				
	Training Data		Testing Data	
Year	Failures	Ignitions	Failures	Ignitions
2016	32	7	14	1
2017	28	4	15	2
2018	21	0	14	0
2019	18	3	13	1
2020	25	3	14	1
2021	37	6	13	0
2022	28	6	9	1
Totals	**189**	**29**	**92**	**6**

3.5.1.7.4 Algorithm Selection

During development Switch failure models were built using SparkML's Random Forest and the Spark version of XGBoost. Ultimately, the XGBoost algorithm was selected for its predictive performance, built-in feature selection, ability to handle missing values, and speedy computation time.

3.5.1.7.5 Covariate Selection

Many switch equipment attributes were tested as features in the model, with the SCADA switch type showing the most performance gains. *Figure 40* presents the total gains feature importance for the Switch equipment model. Among the many equipment attributes experimented with during model development: switch CC rating, soil erodibility, average fire season humidity, and disconnect switch type were found to be the most meaningful features for the model.

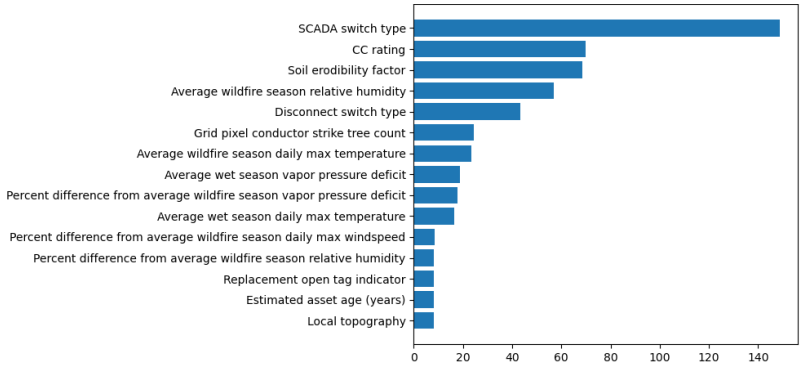


Figure 40 - Switch Feature Importance

Figure 41 shows the SHAP plot for the Switch model. Interpreting the plot, model prediction relationships can be understood and validated. For the Switch equipment, higher probability of failure was found to be correlated with:

- Higher CC rating
- Not disconnect switch
- Is SCADA switch

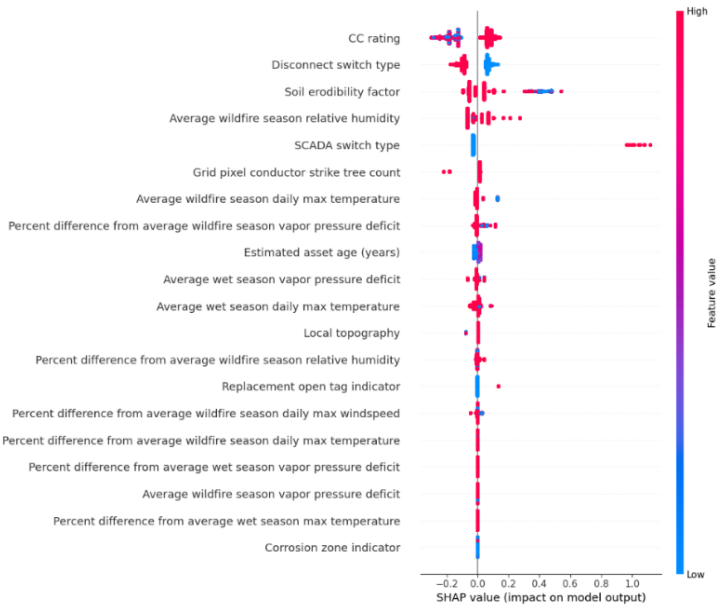


Figure 41 - Switch SHAP Plot

3.5.1.7.6 Limitations and Opportunities

The new v4 switch model demonstrated the capability to use switch attributes with environmental and meteorological features to predict switch equipment failures. Future model development will explore potential improvements such as:

- Using the device switching history of the device - a healthy switch is operated only occasionally and switches that operate frequently tend to degrade.
- Additional research on why SCADA switches are more likely to fail.
- Improving CC rating data set quality.

3.5.1.8 Transformer Models

Transformers are nodes on the distribution grid that are identified by a California Grid Coordinate (cgc12). Each transformer contains from one to three transformer units that are identified by individual equipment IDs. When any unit on a transformer fails, all individual transformer units are typically replaced. Planning programs, therefore, focus on the transformer, whereas failures occur to a transformer unit. The transformer models therefore predict failures for individual transformer units.

The transformer failures are predicted through two causal models for v4:

- Transformer – Equipment failures caused by overload or equipment issues
- Transformer – Leaking failures caused by oil escaping from the transformer unit

3.5.1.8.1 Transformer – Equipment Model

The Transformer – Equipment model predicts physical transformer equipment failures such as winding failures, core failures and loss of neutral. Transformers can potentially fail catastrophically with an explosion that is both a wildfire and a public safety concern. Fortunately, transformers have a very low wildfire ignition to failure rate when compared with other distribution assets.

3.5.1.8.1.1 Key Developments

Key developments for the Transformer – Equipment Failure model include:

- The equipment failure events training data set used for v3, which covered fire season events from 2019 through 2021, was updated to include the 2022 failure events for v4 model development.
- New attributes for v4:
  - Replaced v3 categorized loading values with historical loading data.
  - Open transformer tags
  - Seasonal meteorology
- Equipment failure probabilities and risks are estimated at the asset level for v4 and subsequently aggregated and composited through asset to conductor relationships to produce more accurate v4 circuit segment failure probability and risk values. While structural failures were also modeled at an asset level for v3, the asset level results were converted into spatial pixel values for circuit segment aggregation and compositing. The v3 spatial aggregation frequently resulted in the structural failure probability and risk for any given support structure being shared equally with every conductor asset that occupied the same pixel as the support structure. As a result, the real failure probability and risk values for multiple conductors passing through a single spatial pixel could be higher or lower than the reported aggregated values.

3.5.1.8.1.2 Performance

The v4 Transformer - Equipment failure model demonstrated very good model performance, as shown in *Figure 42* and *Figure 43*, with an AUC of 0.77.

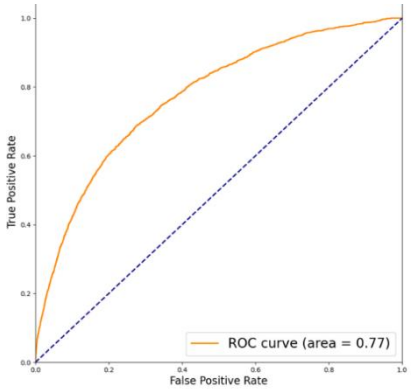


Figure 42 - Transformer - Equipment ROC Curve

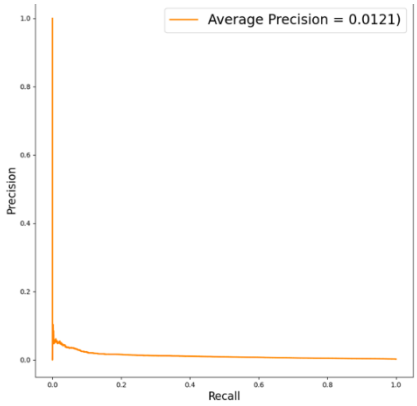


Figure 43 - Transformer - Equipment Precision-Recall Curve

3.5.1.8.1.3 Model Data

The scope of the model was limited to overhead transformer equipment on the distribution system. On average, there were 1,960 transformer equipment failures and 20.5 ignitions during wildfire season between 2019 – 2022.

Table 15 - Transformer - Equipment Event Summary

Transformer - Equipment Event Counts				
	Training Data		Testing Data	
Year	Failures	Ignitions	Failures	Ignitions
2019	1097	18	391	7
2020	1662	18	545	2
2021	1603	15	511	6
2022	1533	14	498	2
Totals	**5895**	**65**	**1945**	**17**

3.5.1.8.1.4 Algorithm Selection

During development Switch failure models were built using SparkML's Random Forest and the Spark version of XGBoost. Ultimately, the XGBoost algorithm was selected for its predictive performance, built-in feature selection, ability to handle missing values, and speedy computation time.

3.5.1.8.1.5 Covariate Selection

Figure 44 presents the total gains top feature importance for the Transformer – Equipment model performance. Top features include peak kVA, transformer age, temperature, resident count, and load factor.

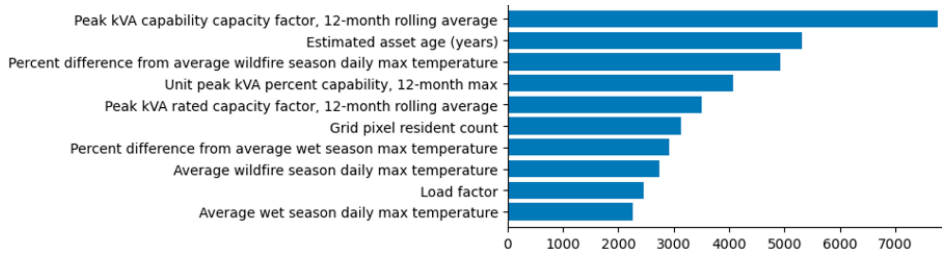


Figure 44 - Transformer - Equipment Top Feature Importance

Other covariate features that moderately contribute to the Equipment failure model include:

- Average wildfire season daily max windspeed
- Soil erodibility factor
- Grid pixel conductor strike tree count
- Local topography
- Rated kVA
- Unit peak kVA percent capability, 12-month rolling average
- Coastal corrosive indicator
- Non-burnable land index
- Manufactured encoded KU
- Manufactured encoded AS
- Manufactured encoded PP
- Manufactured encoded GE
- Manufactured encoded HI
- Manufactured encoded DS
- Manufactured encoded XX
- Replacement open tag indicator
- Manufactured encoded ME
- Manufactured encoded FP
- Manufactured encoded CP
- Manufactured encoded AB
- Manufactured encoded WE

Figure 45 shows the SHAP plot for the Transformer – Equipment failure model. Interpreting the plot, model prediction relationships can be understood and validated. For transformer equipment, higher probability of failure was found to be correlated with:

- Higher peak kVA rated capacity factor
- High percent difference from average max wet season temperature

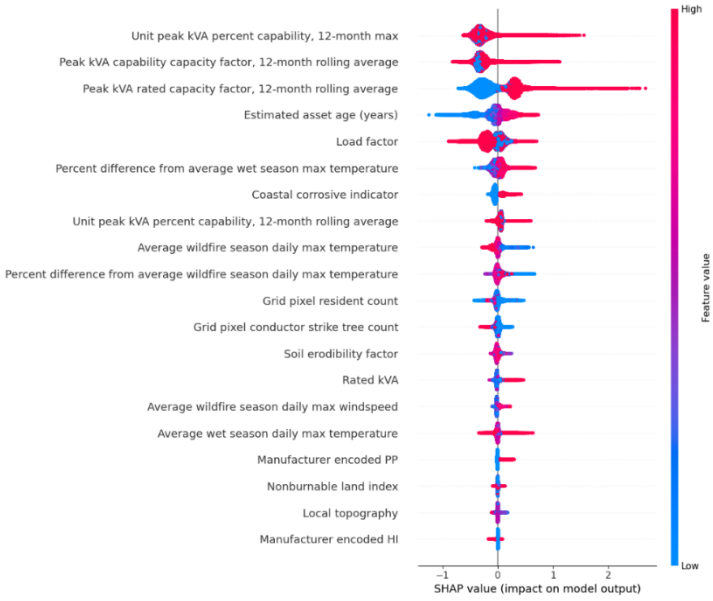


Figure 45 - Transformer - Equipment SHAP Plot

3.5.1.8.1.6 Limitations and Opportunities

Several initiatives could be pursued to improve the transformer equipment failure model performance for future releases by updating the model features, including:

- Additional cleaning of failure and ignition event data to identify specific unit failures
- Explore incorporating additional historical loading data
- Explore incorporating physics-based models for temperature-based adjustments to asset age

3.5.1.8.2 Transformer – Leaking Model

The Transformer – Leaking model predicts tank failures that result in cooling oil leaking out of a transformer. Cooling oil loss leads to overheated equipment and eventual failure of the transformer. While transformer leak failures rarely lead to ignitions, modeling leak failures separately improves the performance of the equipment failure model for predicting equipment-related ignitions.

3.5.1.8.2.1 Key Developments

Key developments for the Transformer – Leaking model include:

- The equipment leaking events training data set used for v3, which covered fire season events from 2019 through 2021, was updated to include the 2022 failure events for v4 model development.
- New attributes for v4:
  - Replaced v3 categorized loading values with historical loading data.
  - Open transformer tags
  - Seasonal meteorology
- Equipment failure probabilities and risks are estimated at the asset level for v4 and subsequently aggregated and composited through asset to conductor relationships to produce more accurate v4 circuit segment failure probability and risk values. While structural failures were also modeled at an asset level for v3, the asset level results were converted into spatial pixel values for circuit segment aggregation and compositing. The v3 spatial aggregation frequently resulted in the structural failure probability and risk for any given support structure being shared equally with every conductor asset that occupied the same pixel as the support structure. As a result, the real failure probability and risk values for multiple conductors passing through a single spatial pixel could be higher or lower than the reported aggregated values.

3.5.1.8.2.2 Performance

The v4 Transformer - Leaking failure model demonstrated very good model performance, as shown in *Figure 46* and, *Figure 47* with an AUC of 0.78.

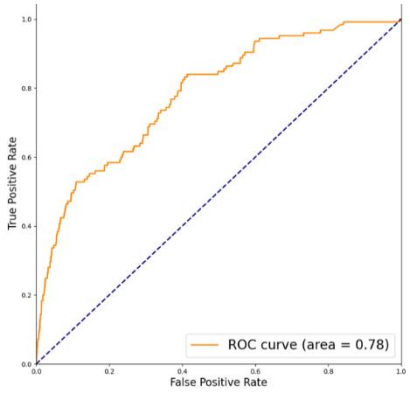


Figure 46 - Transformer - Leaking ROC Curve

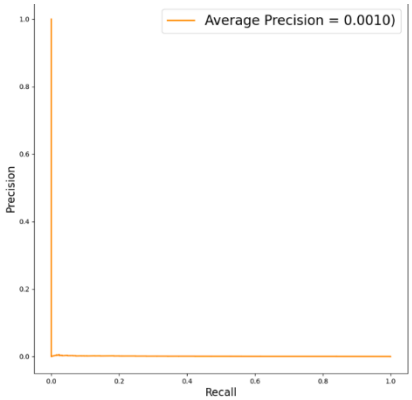


Figure 47 - Transformer - Leaking Precision-Recall Curve

3.5.1.8.2.3 Model Data

The scope of the model was limited to overhead transformer equipment on the distribution system. On average, there were 113 transformer leaking failures and less than one ignition during wildfire season between 2019 – 2022.

Table 16 - Transformer - Leaking Event Summary

Transformer - Leaking Event Counts				
	Training Data		Testing Data	
Year	Failures	Ignitions	Failures	Ignitions
2019	49	0	21	0
2020	88	0	32	0
2021	75	1	22	0
2022	114	0	50	0
Totals	**326**	**1**	**125**	**0**

3.5.1.8.2.4 Algorithm Selection

During development Switch failure models were built using SparkML's Random Forest and the Spark version of XGBoost. Ultimately, the XGBoost algorithm was selected for its predictive performance, built-in feature selection, ability to handle missing values, and speedy computation time.

3.5.1.8.2.5 Covariate Selection

Figure 48 presents the total gains top feature importance for the Transformer – Leaking model performance. Top features include temperature, transformer age, peak KVA, rate kVA resident count, load factor, windspeed, and soil erodibility factor.

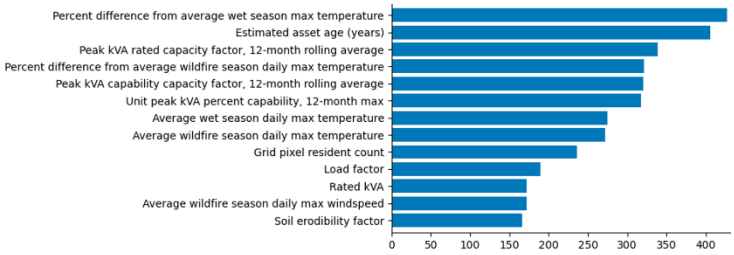


Figure 48 - Transformer - Leaking Top Feature Importance

Other covariate features that moderately contribute to the Leaking failure model include:

- Manufacturer encoded DS
- Local topography
- Grid pixel conductor strike tree count
- Unit peak kVA percent capability, 12-month rolling average
- Manufactured encoded HI
- Manufactured encoded XX
- Manufactured encoded AS
- Manufactured encoded PP
- Non-burnable land index
- Coastal corrosive indicator
- Manufactured encoded GE
- Manufactured encoded KU
- Manufactured encoded ME

Figure 49 shows the SHAP plot for the Transformer – Leaking failure model. Interpreting the plot, model prediction relationships can be understood and validated. For leaking transformers, higher probability of failure was found to be correlated with:

- Higher peak kVA rated capability capacity factor
- Higher peak kVA rated capacity factor
- Unit peak kVA percent capability
- Transformer age

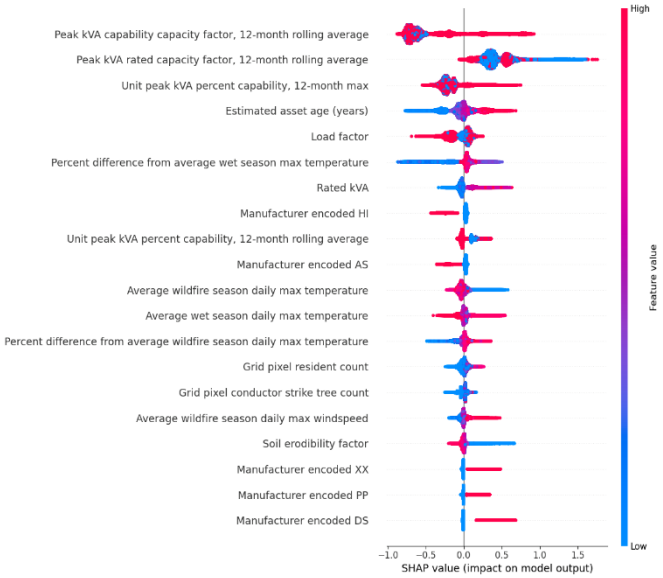


Figure 49 - Transformer - Leaking SHAP Plot

3.5.1.8.2.6 Limitations and Opportunities

Several initiatives could be pursued to improve the transformer equipment failure model performance for future releases by updating the model features, including:

- Additional cleaning of failure and ignition event data to identify specific unit failures
- Explore incorporating additional historical loading data
- Explore incorporating physics-based models for temperature-based adjustments to asset age

3.5.1.9 Voltage Regulator Model

Voltage regulators, also called boosters, help keep the voltage steady on the distribution system. They have a moderate ignition to failure rate compared to other distribution assets.

3.5.1.9.1 Key Developments

Voltage regulator and capacitor bank failure events were bundled together in a common spatial model for v3 using the MaxEnt algorithm. For v4, voltage regulator and capacitor bank failure events are modeled separately. Additionally, the v3 spatial model approach was replaced with a time-series model for v4.

The time-series model upgrade was enabled by establishing voltage regulator asset history back to 2016 through an examination of annual snapshots of Electrical Distribution GIS (EDGIS) asset data. By examining the historical asset data, failures could be traced back to specific equipment in service at the time of failure and the actual attributes of the failed equipment could in turn be used to train the model.

During model development there were some features that were explored, but not included as covariates in the final model:

- Open tags
- Seasonal meteorology data

3.5.1.9.2 Performance

The v4 Voltage Regulator failure model demonstrated moderately good model performance, as shown in *Figure 50* and *Figure 51*, with an AUC of 0.62.

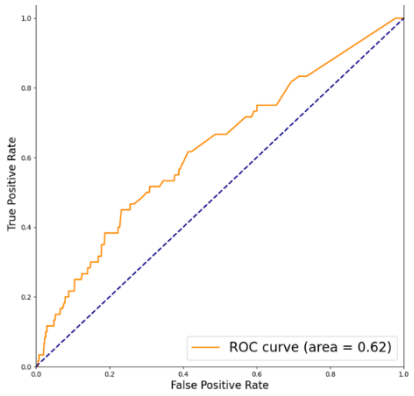


Figure 50 - Voltage Regulator ROC Curve

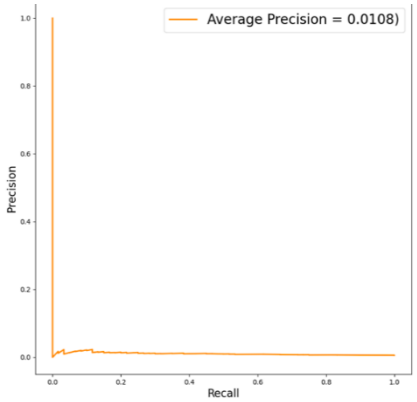


Figure 51 - Voltage Regulator Precision-Recall Curve

3.5.1.9.3 Model Data

The scope of the model was limited to overhead voltage regulators on the distribution system. On average, there were 30.5 voltage regulator failures and 2.7 ignitions during wildfire season between 2016 – 2022.

Table 17 - Voltage Regulator Event Summary

Voltage Regulator Event Counts				
	Training Data		Testing Data	
Year	Failures	Ignitions	Failures	Ignitions
2016	17	1	6	0
2017	19	1	14	2
2018	13	3	7	0
2019	26	1	6	0
2020	21	4	9	1
2021	33	3	8	1
2022	25	1	10	1
Totals	**154**	**14**	**60**	**5**

3.5.1.9.4 Algorithm Selection

During development Voltage Regulator failure models were built using SparkML's Random Forest and the Spark version of XGBoost. Ultimately, the XGBoost algorithm was selected for its predictive performance, built-in feature selection, ability to handle missing values, and speedy computation time.

3.5.1.9.5 Covariate Selection

Many voltage regulator attributes were tested as features in the model with the rate amps showing the most performance gains. *Figure 52* presents the total gains feature importance for the Voltage Regulator model. Among the many equipment attributes experimented with during model development: wet season precipitation, wet season maximum daily temperature, wet season vapor pressure deficit, wildfire season humidity, and percent difference from wildfire season humidity were found to be the most meaningful features for the model.

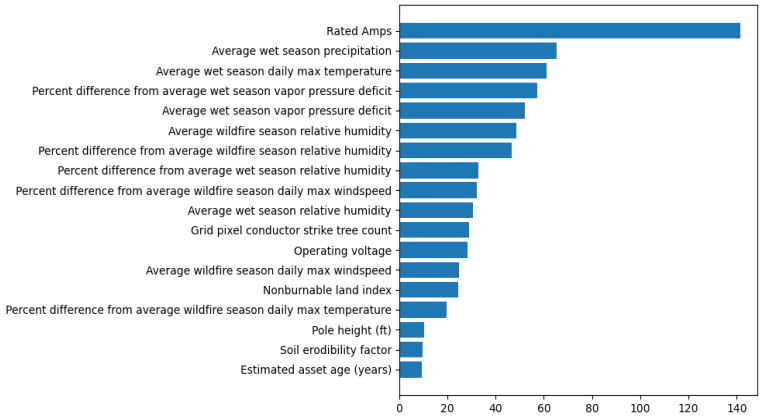


Figure 52 - Voltage Regulator Feature Importance

Figure 53 shows the SHAP plot for the Voltage Regulator model. Interpreting the plot, model prediction relationships can be understood and validated. For Voltage Regulators, higher probability of failure was found to be correlated with:

- Lower wet season precipitation
- Lower fire season humidity
- Higher rated amp values

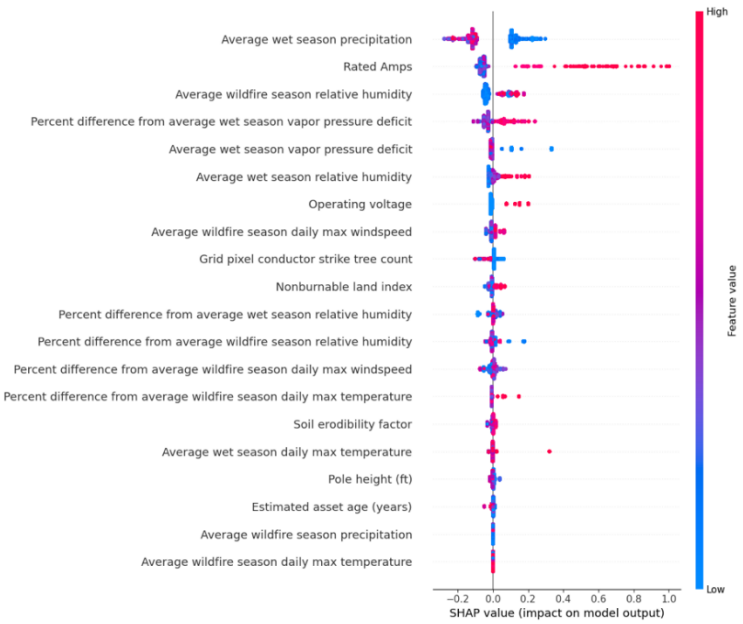


Figure 53 - Voltage Regulator SHAP Plot

3.5.1.9.6 Limitations and Opportunities

The Voltage Regulator model is limited to banks, or groups, of voltage regulators. Unit-specific failure modeling would require additional data not currently available.

Future model development is expected to focus on the exploration of additional voltage regulator attributes and meteorological features.

3.5.1.10 Other Equipment Model

The Other Equipment model is the bookkeeping catch-all for outages with a cause that does not belong with any other causal model or has no recorded cause. Fortunately, while there are a great number of outages that are attributed to the Other Equipment model, there are only a very few outages that result in an ignition. This is likely due to the investigative emphasis placed on ignition records leading to correct attribution of each ignition to its true cause. In the end, the small number of ignitions assigned to the Other Equipment model have a minimal impact on distribution wildfire risk mitigation planning.

3.5.1.10.1 Key Developments

The Other Equipment v4 model is a refresh of the v3 model. The only significant update was the addition of 2023 failures to the event training dataset.

3.5.1.10.2 Performance

The v4 Other Equipment outage model demonstrated good model performance with an AUC of 0.75 as shown in *Figure 54*.

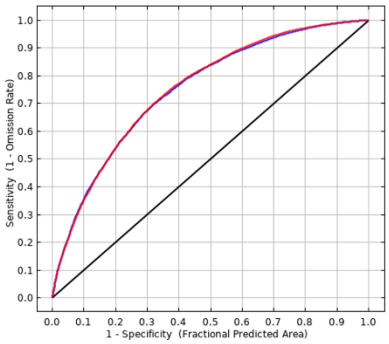


Figure 54 - Other Equipment ROC Curve

3.5.1.10.3 Model Data

Table 18 presents a summary of event counts used for v4 development:

Table 18 – Other Equipment Event Summary

Event Type	Value
Outage Count	54053
Ignition Count	201
Ignitions Per Outage	0.0037

3.5.1.10.4 Algorithm Selection

The MaxEnt algorithm, which was used for v3, was retained for v4 due to its ability to analyze presence only events and preserve spatial interactions during model optimization.

3.5.1.10.5 Covariate Selection

Figure 55 presents the total gains feature importance that account for 95% of the Other Equipment model performance. Top features include strike tree counts, the impervious and non-burnable land indices that indicate urban environments, subtypecd, and conductor size and material.

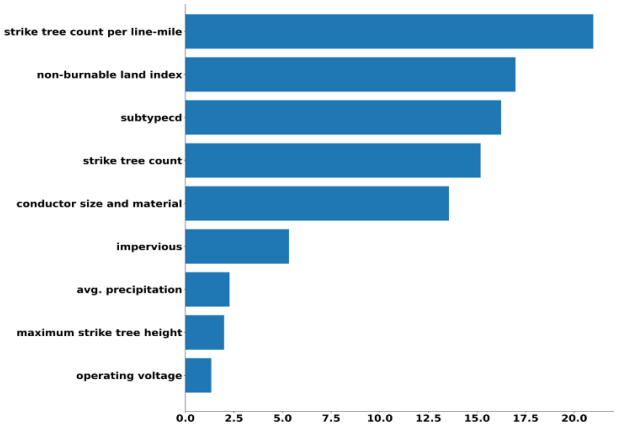


Figure 55 - Other Equipment Top Feature Performance

There are numerous additional covariate features that marginally contribute to the Other Equipment model, accounting for the remaining 5% of model performance:

- avg. strike tree height
- canopy density
- montane hardwood CWHR
- tier-2
- coastal
- soil slope
- P.S.P.S. segment
- montane hardwood CWHR
- soil clay content
- douglas fir CWHR
- soil erodibility factor
- avg. specific humidity
- gusty summer day percentage
- closed cone pine cypress CWHR
- soil drain
- soil horizon thickness
- soil hydro-group
- is soil hydric
- annual soil flood frequency
- windy summer day percentage
- redwood CWHR
- local topography
- soil permeability
- eucalyptus C.W.H.R
- klamath mixed conifer CWHR
- avg. 100-hr fuels
- tree species
- coastal oak woodland CWHR
- valley oak woodland CWHR
- juniper CWHR
- ponderosa pine CWHR
- montane riparian CWHR
- avg. burn index
- avg. daily maximum temperature
- maximum wind speed
- soil organic matter
- sierran mixed conifer CWHR

3.5.1.10.6 Limitations and Opportunities

Deep learning models will be investigated to bring these models into the temporal domain while retaining spatial dependencies.

3.5.2 Contact From Object Models

Contact From Object failures and outages on the distribution grid occur when an electrical short or failure is caused by a non-electrical asset object. Contact From Object failures are grouped into three causal categories:

- Animal - Failures initiated by animal (non-human) contact with an electrical asset.
- Third-Party - Failures initiated by human-related contact with an electrical asset.
- Vegetation - Failures initiated by vegetation in contact with an electrical asset.

Thousands of failures and outages have been recorded for each causal category. To improve model performance and model applicability for developing mitigation response, each of the causal categories have been subdivided to model specific causal failure paths.

The following sections in this document detail the suite of Contact From Object models developed for DEPM v4.

Table 19 provides a brief Contact From Object model performance summary.

Table 19 - Contact From Object Model Performance Summary

Contact From Object Event Model	Outages	v3 p(o)	V4 p(o) – Probability of Outage		
	Season Mean	AUC	AUC	Precision	Concentration Factor
Vegetation – Branch		0.83	0.87	0.000864	3.20
Vegetation – Trunk		0.87	0.88	0.000971	3.40
Vegetation – Other		0.84	0.88	0.000357	2.57
Animal – Bird		0.74	0.75	0.000266	1.79
Animal – Squirrel		0.88	0.88	0.000174	3.70
Animal – Other		0.77	0.80	0.000195	2.53
Third-Party – Balloon		0.89	0.89	0.000305	3.25
Third-Party – Vehicle		0.77	0.76	0.000413	1.85
Third-Party – Other		0.71	0.74	0.000145	1.78

3.5.2.1 Animal Models

Animals frequently come into contact with electrical assets. Animal contact can cause outages and potentially ignitions. Historically, birds and squirrels are responsible for the majority of animal-related outages. Therefore, animal outages are predicted using three distinct models:

- Bird – Failures caused by avian contact with conductors.
- Squirrel – Failures caused by squirrel contact with conductors.
- Other – Failures from other or unknown animal contact.

3.5.2.1.1 Animal – Bird Model

The Animal-Bird model uses historical bird-caused failure events to model outage probability from bird contact with conductors.

3.5.2.1.1.1 Key Developments

There are two important changes to the Bird model for v4:

- The failure event dataset was updated to include 2023 failures, expanding the number of events available for model development.
- New satellite canopy density data from Planet Labs was introduced to improve location correlations for animal habitats.

3.5.2.1.1.2 Performance

The v4 Animal – Bird outage model demonstrated good model performance with an AUC of 0.75, as shown in *Figure 56*.

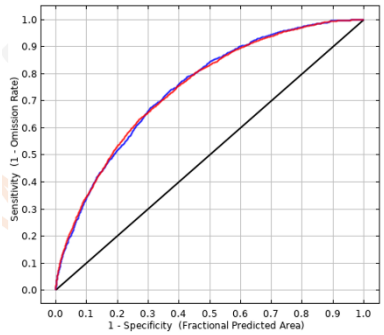


Figure 56 - Animal-Bird ROC Curve

3.5.2.1.1.3 Model Data

Table 20 presents a summary of event counts used for v4 development:

Table 20 - Animal - Bird Event Summary

Event Type	Value
Outage Count	5429
Ignition Count	259
Ignitions Per Outage	0.0477

3.5.2.1.1.4 Algorithm Selection

The MaxEnt algorithm, which was used for v3, was retained for v4 due to its ability to analyze presence only events and preserve spatial interactions during model optimization.

3.5.2.1.1.5 Covariate Selection

Figure 57 presents the total gains feature importance that account for 95% of the Animal - Bird model performance. Top features include conductor type (subtypecd), the number of strike trees, impervious and non-burnable land index that indicate urban environments, and operating voltage.

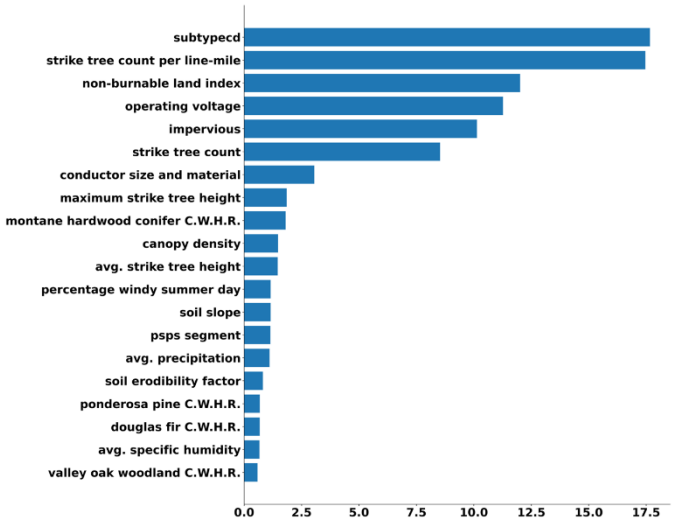


Figure 57 - Animal - Bird Top Feature Importance

There are numerous additional covariate features that marginally contribute to the Bird model, accounting for the remaining 5% of model performance:

- soil organic matter
- closed cone pine cypress CWHR
- tier-2
- tree species
- avg. vapor pressure deficit
- soil hydro-group
- blue oak foothill pine CWHR
- blue oak woodland CWHR
- local topography
- avg. 100-hr fuels
- soil clay content
- avg. 1000-hr fuels
- avg. energy release
- soil liquid limit
- gusty summer day percentage
- avg. wind speed
- minimum strike tree height
- tier-3
- soil permeability
- avg. daily maximum temperature
- soil drain
- soil horizon thickness
- eucalyptus C.W.H.R
- aspen C.W.H.R
- is soil hydric
- juniper CWHR
- available soil water capacity
- maximum wind speed
- montane hardwood CWHR
- annual soil flood frequency
- redwood CWHR

3.5.2.1.1.6 Limitations and Opportunities

Due to the interaction of animals, vegetation, and climate, it is important that the Animal models be able to capture temporal variations over time so that future conditions can be projected based on current trends. The current MaxEnt algorithm, while very good at modeling spatial trends, cannot model temporal trends. Therefore, the model is currently limited to using features such as overall vegetation density and cannot discern time-based trends such as increasing tree mortality and its resultant animal habitat impacts. Deep learning models such as Recurrent Neural Networks and Transformers will be investigated to test if adding the temporal domain to future models will improve model predictive performance.

3.5.2.1.2 Animal – Squirrel Model

The Animal-Squirrel model uses historical squirrel-caused failure events to model outage probability from squirrels interacting with conductors.

3.5.2.1.2.1 Key Developments

There are two important changes to the Squirrel model for v4:

- The failure event dataset was updated to include 2023 failures, expanding the number of events available for model development.
- New satellite canopy density data from Planet Labs was introduced to improve location correlations for animal habitats.

3.5.2.1.2.2 Performance

The v4 Animal – Squirrel outage model demonstrated excellent model performance with an AUC of 0.88, as shown in *Figure 58*.

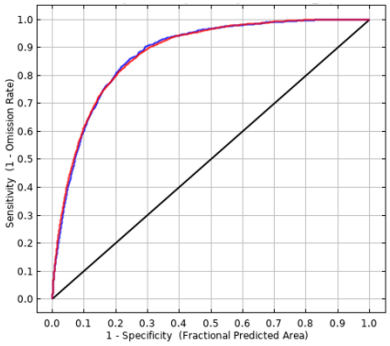


Figure 58 - Animal-Squirrel ROC Curve

3.5.2.1.2.3 Model Data

Table 21 presents a summary of event counts used for v4 development:

Table 21 - Animal-Squirrel Event Summary

Event Type	Value
Outage Count	4488
Ignition Count	51
Ignitions Per Outage	0.0114

3.5.2.1.2.4 Algorithm Selection

The MaxEnt algorithm, which was used for v3, was retained for v4 due to its ability to analyze presence only events and preserve spatial interactions during model optimization.

3.5.2.1.2.5 Covariate Selection

Figure 59 presents the total gains feature importance that account for 95% of the Animal - Squirrel model performance. Top features include impervious and non-burnable land indices that indicate urban environments, average precipitation, strike tree count, and fuel availability.

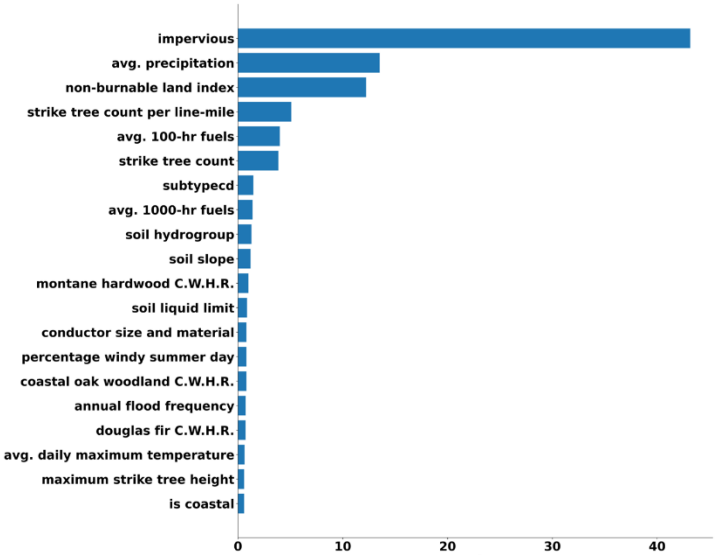


Figure 59 - Animal - Squirrel Top Feature Importance

There are numerous additional covariate features that marginally contribute to the Squirrel model, accounting for the remaining 5% of model performance:

- avg. specific humidity
- soil horizon thickness
- avg. vapor pressure deficit
- valley oak woodland CWHR
- blue oak woodland CWHR
- canopy density
- maximum wind speed
- soil erodibility factor
- eucalyptus C.W.H.R
- avg. strike tree height
- operating voltage
- montane hardwood CWHR
- P.S.P.S. segment
- tier-2
- montane riparian CWHR
- soil clay content
- gusty summer day percentage
- avg. wind speed
- sierran mixed conifer CWHR
- avg. burn index
- tree species
- valley foothill riparian CWHR
- local topography
- eastside pine CWHR
- closed cone pine cypress CWHR
- ponderosa pine CWHR
- soil permeability
- available soil water capacity
- is soil hydric

3.5.2.1.2.6 Limitations and Opportunities

Due to the interaction of animals, vegetation, and climate, it is important that the Animal models be able to capture temporal variations over time so that future conditions can be projected based on current trends. The current MaxEnt algorithm, while very good at modeling spatial trends, cannot model temporal trends. Therefore, the model is currently limited to using features such as overall vegetation density and cannot discern time-based trends such as increasing tree mortality and its resultant animal habitat impacts. Deep learning models such as Recurrent Neural Networks and Transformers will be investigated to test if adding the temporal domain to future models will improve model predictive performance.

3.5.2.1.3 Animal – Other Model

The Animal – Other model uses historical failure events which do not fit within the squirrel or bird category to model outage probability from other animal sources.

3.5.2.1.3.1 Key Developments

There are two important changes to the Animal – Other model for v4:

- The failure event dataset was updated to include 2023 failures, expanding the number of events available for model development.
- New satellite canopy density data from Planet Labs was introduced to improve location correlations for animal habitats.

3.5.2.1.3.2 Performance

The v4 Animal – Other outage model demonstrated very good model performance with an AUC of 0.79, as shown in *Figure 60*.

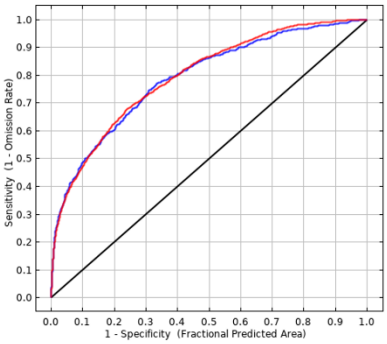


Figure 60 - Animal-Other ROC Curve

3.5.2.1.3.3 Model Data

Table 22 presents a summary of event counts used for v4 development:

Table 22 - Animal - Other Event Summary

Event Type	Value
Outage Count	1291
Ignition Count	105
Ignitions Per Outage	0.0813

3.5.2.1.3.4 Algorithm Selection

The MaxEnt algorithm, which was used for v3, was retained for v4 due to its ability to analyze presence only events and preserve spatial interactions during model optimization.

3.5.2.1.3.5 Covariate Selection

Figure 61 presents the total gains feature importance that account for 95% of the Animal - Squirrel model performance. Top features include impervious and non-burnable land indices that indicate urban environments, strike tree count, vapor pressure deficit and humidity.

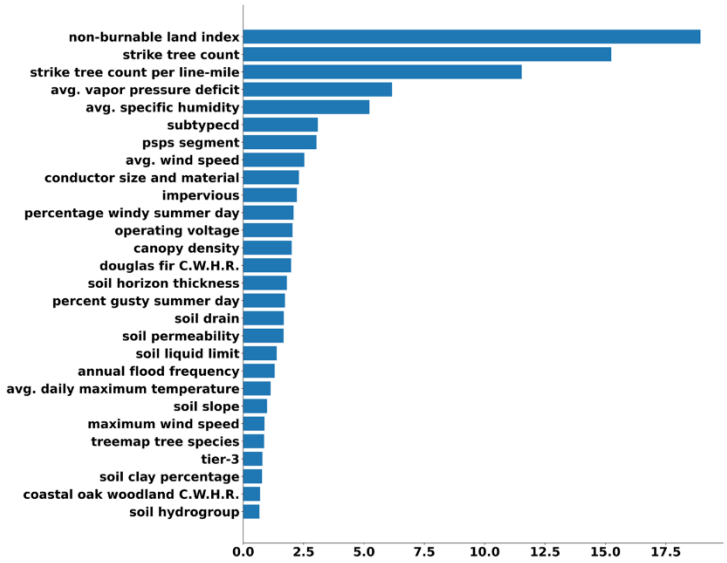


Figure 61 - Animal - Other Top Feature Performance

There are numerous additional covariate features that marginally contribute to the Other model, accounting for the remaining 5% of model performance:

- soil organic matter
- closed cone pine cypress CWHR
- soil erodibility factor
- blue oak woodland CWHR
- avg. burn index
- coastal
- avg. 1000-hr fuels
- available soil water capacity
- avg. strike tree height
- montane hardwood CWHR
- minimum strike tree height
- avg. precipitation
- avg. energy release
- eucalyptus C.W.H.R
- montane riparian CWHR
- valley oak woodland CWHR
- redwood CWHR
- is soil hydric

3.5.2.1.3.6 Limitations and Opportunities

Due to the interaction of animals, vegetation, and climate, it is important that the Animal models be able to capture temporal variations over time so that future conditions can be projected based on current trends. The current MaxEnt algorithm, while very good at modeling spatial trends, cannot model temporal trends. Therefore, the model is currently limited to using features such as overall vegetation density and cannot discern time-based trends such as increasing tree mortality and its resultant animal habitat impacts. Deep learning models such as Recurrent Neural Networks and Transformers will be investigated to test if adding the temporal domain to future models will improve model predictive performance.

3.5.2.2 Third-Party Models

Third-party failures, outages, and ignitions occur when there is human-related contact with electrical assets. Historically, vehicles and mylar balloons are responsible for the majority of human-related outages. Therefore, Third-Party outages are predicted using three distinct models:

- Balloon – Failures caused by mylar balloon contact with conductors.
- Vehicle – Failures caused by a vehicle contact with poles and conductors.
- Other – Failures from other or unknown human-related contact.

3.5.2.2.1 Third-Party – Balloon Model

The Third-Party Balloon model uses historical mylar balloon-caused failure events to model outage probability from balloons contacting conductors.

3.5.2.2.1.1 Key Developments

The only significant change to the Balloon model for v4 was that the failure event data set was updated to include 2023 failures, increasing the number of events used to for modeling training.

3.5.2.2.1.2 Performance

The v4 Third-Party – Balloon outage model demonstrated excellent model performance with an AUC of 0.88, as shown in *Figure 62*.

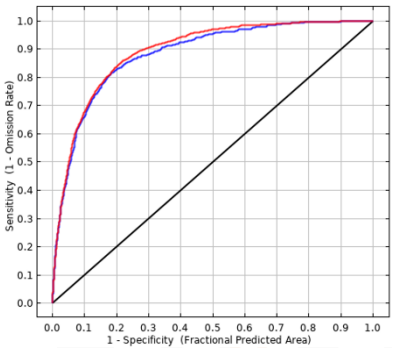


Figure 62 - Third-Party – Balloon ROC Curve

3.5.2.2.1.3 Model Data

Table 23 presents a summary of event counts used for v4 development:

Table 23 - Third-Party – Balloon Event Summary

Event Type	Value
Outage Count	2420
Ignition Count	120
Ignitions Per Outage	0.0496

3.5.2.2.1.4 Algorithm Selection

The MaxEnt algorithm, which was used for v3, was retained for v4 due to its ability to analyze presence only events and preserve spatial interactions during model optimization.

3.5.2.2.1.5 Covariate Selection

Figure 63 presents the total gains feature importance that account for 95% of the Third-Party - Balloon model performance. Top features include the impervious and non-burnable land indices that indicate urban environments, strike tree count, and conductor type (subtypecd).

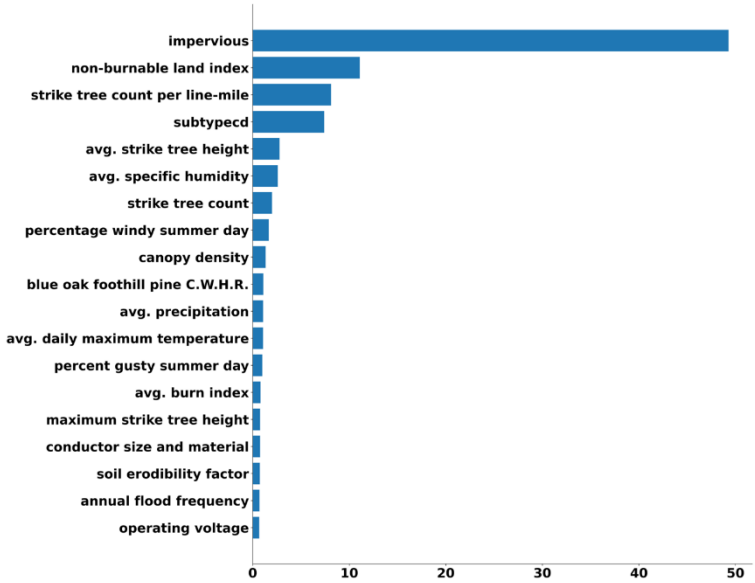


Figure 63 – Third-Party – Balloon Top Feature Importance

There are numerous additional covariate features that marginally contribute to the Balloon model, accounting for the remaining 5% of model performance:

- maximum wind speed
- tier-2
- avg. vapor pressure deficit
- P.S.P.S. segment
- soil horizon thickness
- soil clay content
- closed cone pine cypress CWHR
- sierran mixed conifer CWHR
- red fir CWHR
- soil slope
- soil organic matter
- avg. energy release
- redwood CWHR
- tier-3
- soil drain
- soil hydro-group
- available soil water capacity
- is soil hydric
- minimum strike tree height
- eucalyptus C.W.H.R
- avg. wind speed
- tree species
- soil liquid limit
- valley oak woodland CWHR
- montane riparian CWHR

3.5.2.2.1.6 Limitations and Opportunities

Due to population dynamics, it is important that the Third-Party models be able to capture temporal variations over the years and project into the future based on current trends. The current MaxEnt algorithm, while very good at modeling spatial trends, cannot model temporal trends nor can it see finer trends such as demographic change and (de)urbanization. Deep learning models such as Recurrent Neural Networks and Transformers will be investigated to test if adding the temporal domain to future models will improve model predictive performance.

3.5.2.2.2 Third-Party – Vehicle Model

The Third-Party Vehicle model uses historical vehicle-caused failure events to model outage probability from vehicle contact with electrical assets resulting in damage to conductors.

3.5.2.2.2.1 Key Developments

The only significant change to the Vehicle model for v4 was that the failure event data set was updated to include 2023 failures, increasing the number of events used to for modeling training.

3.5.2.2.2.2 Performance

The v4 Third-Party – Vehicle outage model demonstrated very good model performance with an AUC of 0.76, as shown in *Figure 64*.

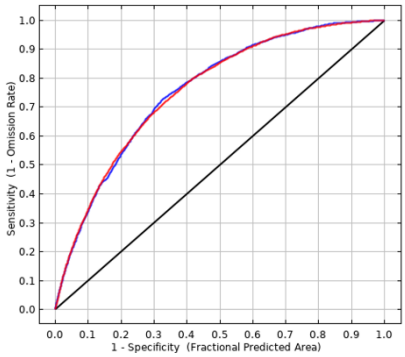


Figure 64 - Third Party-Vehicle ROC Curve

3.5.2.2.2.3 Model Data

Table 24 presents a summary of event counts used for v4 development:

Table 24 – Third-Party – Vehicle Event Summary

Event Type	Value
Outage Count	8347
Ignition Count	305
Ignitions Per Outage	0.0365

3.5.2.2.2.4 Algorithm Selection

The MaxEnt algorithm, which was used for v3, was retained for v4 due to its ability to analyze presence only events and preserve spatial interactions during model optimization.

3.5.2.2.2.5 Covariate Selection

Figure 65 presents the total gains feature importance that account for 95% of the Third-Party - Vehicle model performance. Top features include the impervious and non-burnable land indices that indicate urban environments, strike tree count, conductor type (subtypecd), and conductor size and material.

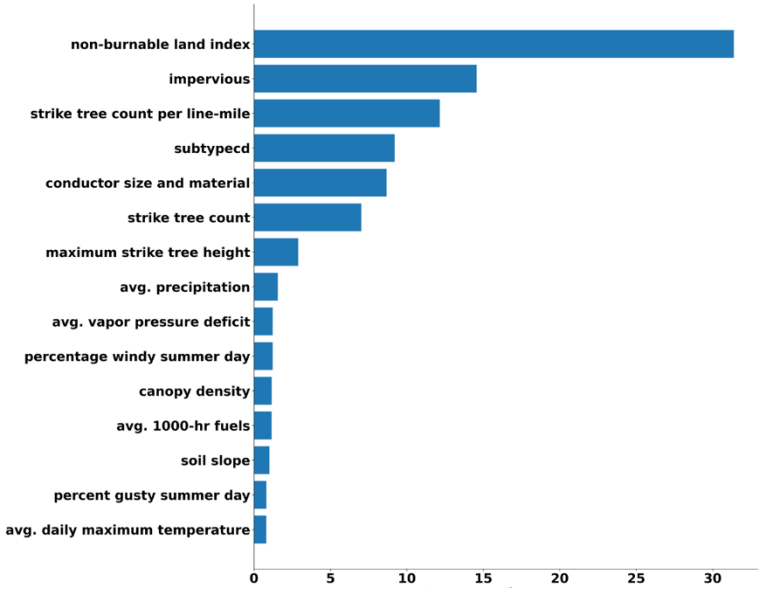


Figure 65 - Third Party-Vehicle Top Feature Performance

There are numerous additional covariate features that marginally contribute to the Vehicle model, accounting for the remaining 5% of model performance:

- soil permeability
- avg. strike tree height
- local topography
- avg. burn index
- operating voltage
- tree species
- soil hydro-group
- P.S.P.S. segment
- ponderosa pine CWHR
- coastal oak woodland CWHR
- soil liquid limit
- available soil water capacity
- montane hardwood CWHR
- tier-3
- is soil hydric
- blue oak foothill pine CWHR
- soil drain
- juniper CWHR
- avg. wind speed
- blue oak woodland CWHR
- soil erodibility factor
- sierran mixed conifer CWHR
- eucalyptus C.W.H.R
- avg. 100-hr fuels
- montane hardwood CWHR
- closed cone pine cypress CWHR
- annual soil flood frequency
- tier-2
- soil horizon thickness
- valley oak woodland CWHR
- soil clay content
- redwood CWHR

3.5.2.2.2.6 Limitations and Opportunities

Due to population dynamics, it is important that the Third-Party models be able to capture temporal variations over the years and project into the future based on current trends. The current MaxEnt algorithm, while very good at modeling spatial trends, cannot model temporal trends nor can it see finer trends such as demographic change and (de)urbanization. Deep learning models such as Recurrent Neural Networks and Transformers will be investigated to test if adding the temporal domain to future models will improve model predictive performance.

3.5.2.2.3 Third-Party – Other Model

The Third-Party – Other model uses historical third-party failure events that are not classified as mylar balloon or vehicle-related failures.

3.5.2.2.3.1 Key Developments

The only significant change to the Third-Party – Other model for v4 was that the failure event data set was updated to include 2023 failures, increasing the number of events used to for modeling training.

3.5.2.2.3.2 Performance

The v4 Third-Party – Other outage model demonstrated good model performance with an AUC of 0.74, as shown in *Figure 66*.

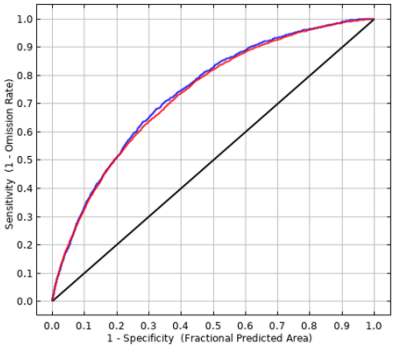


Figure 66 - Third Party-Other ROC Curve

3.5.2.2.3.3 Model Data

Table 25 presents a summary of event counts used for v4 development:

Table 25 - Third-Party – Other Event Summary

Event Type	Value
Outage Count	2785
Ignition Count	151
Ignitions Per Outage	0.0542

3.5.2.2.3.4 Algorithm Selection

The MaxEnt algorithm, which was used for v3, was retained for v4 due to its ability to analyze presence only events and preserve spatial interactions during model optimization.

3.5.2.2.3.5 Covariate Selection

Figure 67 presents the total gains feature importance that account for 95% of the Third-Party - Other model performance. Top features include the impervious and non-burnable land indices that indicate urban environments, strike tree count, conductor type (subtypecd), and strike tree height.

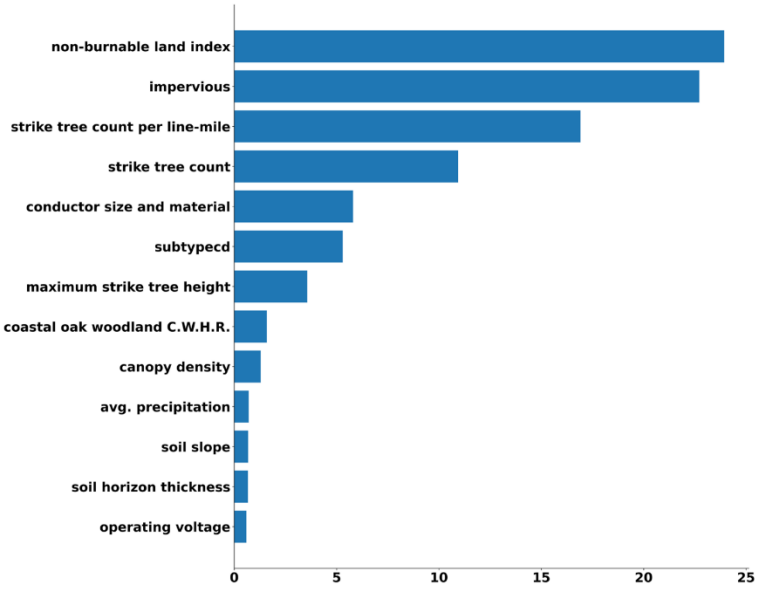


Figure 67 - Third Party-Other Top Feature Performance

There are numerous additional covariate features that marginally contribute to the Other model, accounting for the remaining 5% of model performance:

- avg. specific humidity
- avg. strike tree height
- windy summer day percentage
- avg. vapor pressure deficit
- annual soil flood frequency
- tier-3
- tier-2
- avg. daily maximum temperature
- soil liquid limit
- Klamath mixed conifer CWHR
- local topography
- valley foothill riparian CWHR
- is soil hydric
- pinyon juniper CWHR
- blue oak woodland CWHR
- soil drain
- soil permeability
- blue oak foothill pine CWHR
- P.S.P.S. segment
- soil hydro-group
- gusty summer day percentage
- montane hardwood CWHR
- soil clay content
- sierran mixed conifer CWHR
- available soil water capacity
- juniper CWHR
- avg. wind speed
- eucalyptus C.W.H.R
- desert riparian CWHR
- ponderosa pine CWHR
- avg. energy release
- maximum wind speed

3.5.2.2.3.6 Limitations and Opportunities

Due to population dynamics, it is important that the Third-Party models be able to capture temporal variations over the years and project into the future based on current trends. The current MaxEnt algorithm, while very good at modeling spatial trends, cannot model temporal trends nor can it see finer trends such as demographic change and (de)urbanization. Deep learning models such as Recurrent Neural Networks and Transformers will be investigated to test if adding the temporal domain to future models will improve model predictive performance.

3.5.2.3 Vegetation Models

Vegetation regularly comes into contact with electrical assets and often initiates failure, outages, and ignitions. Historically, trees, through two causal paths, are responsible for majority of vegetation-related failures and outages. Therefore, vegetation outages are predicted using three distinct models:

- Branch – Failures caused by tree branches striking conductors.
- Trunk – Failures caused by full tree body striking conductors.
- Other – Failures from other or unknown vegetation causes.

3.5.2.3.1 Vegetation – Branch Model

The Vegetation – Branch model uses historical branch failure events to model outage probability from branch debris striking a conductor.

3.5.2.3.1.1 Key Developments

During v4 development, we explored the issue of bark beetle infestation as a source of tree failures. A study was conducted to discern the cause of the infestations and it was found that the lack of water availability over the years, primarily due to Climate Change, was hampering the tree's immune system and natural defenses. These effects were captured by way of the following remotely sensed quantities and the surveyed tree mortality map by CalFIRE:

- The Standardized Precipitation and Evapo-Transpiration Index – An index used to quantify regional water availability.
- The Climatic Water Deficit – This quantity represents the water use of trees in the area.
- California High Hazard Zones – This CalFIRE product was used to give the model a sense of the tree mortality rate in any given area.

Other important model developments for v4 include:

- Planet Labs Tree Canopy Density – Similar to counting the number of strike trees around an asset, a measure of the canopy density was used to quantify the amount of material that was available to be ejected from any given tree.
- Wind Strike Potential – New attributes were introduced to consider the relative position of trees to conductors along with wind speed and direction to when predicting branch strike potential.
- Tree Failure Locations – Tree failures were attributed to actual tree locations for v4, whereas v3 used the locations of triggered protective devices.

3.5.2.3.1.2 Performance

The v3 Branch model lagged the Trunk model in performance. The addition of the new covariates improved the v4 Branch model and it now matches the Trunk Model in performance. The v4 Vegetation – Branch outage model demonstrated excellent model performance with an AUC of 0.87, as shown in *Figure 68*.

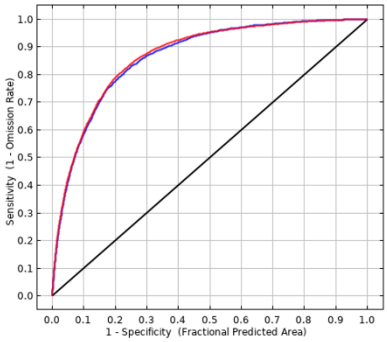


Figure 68 - Vegetation-Branch ROC Curve

3.5.2.3.1.3 Model Data

Table 26 presents a summary of event counts used for v4 development:

Table 26 – Vegetation - Branch Event Summary

Event Type	Value
Outage Count	7392
Ignition Count	428
Ignitions Per Outage	0.058

In addition to updated target events, newly added covariates were also generated by various base data:

- The Standardized Precipitation and Evapo-transpiration Index (SPEI) represents water availability. This index measures the deviation of drought conditions from a multi-year baseline quantifying the onset, duration, and magnitude of drought.
- The Climatic Water Deficit (CWD) measures vegetation water use. The CWD data comes from the USGS Water Basin Characterization Model.
- As a proxy for tree mortality, both tier-1 and tier-2 CalFIRE California High Hazard Zones were implemented as covariates.
- Canopy Density was implemented from a dataset from Planet Labs.
- The following new wind covariates were developed:
  - The normalized historical wind direction and strike potential
  - The historical wind direction and strike potential
  - The wind damage and strike potential
  - The normalized wind damage and strike potential which measure different ways in which a wind's magnitude and direction interplay with a tree's location and a conductor's location to ultimately propel matter into a conductor.

3.5.2.3.1.4 Algorithm Selection

The MaxEnt algorithm, which was used for v3, was retained for v4. A significant issue for the vegetation models is inability to determine a target probability of a vegetation failure causing damage to an electrical asset. Unfortunately, a vegetation failure is only recorded as failure if it impacts an electrical asset. Therefore, no information is available about how many benign vegetation failures occur that do not result in an asset problem. The MaxEnt algorithm is particularly suited for modeling vegetation failures as it only requires knowledge of known asset failure locations caused by falling branches or tree trunks and does not require data on failures that did not result in an asset impact.

3.5.2.3.1.5 Covariate Selection

Figure 69 presents the total gains feature importance that account for 95% of the Vegetation - Branch model performance. Top features include strike tree counts, strike tree height, the impervious and non-burnable land indices that indicate urban environments, and conductor (subtypecd).

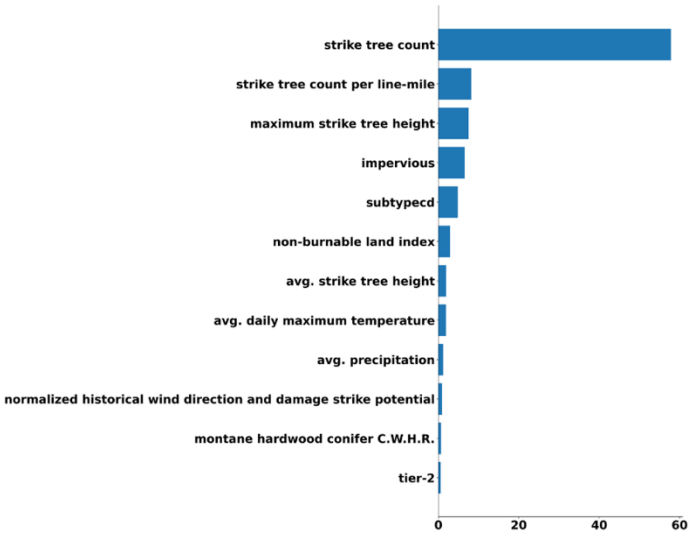


Figure 69 - Vegetation-Branch Top Feature Performance

There are numerous additional covariate features that marginally contribute to the Branch model, accounting for the remaining 5% of model performance:

- blue oak foothill pine CWHR
- operating voltage
- wind damage and strike potential
- coastal
- soil hydro-group
- maximum 4-yr CWD
- valley foothill riparian CWHR
- douglas fir CWHR
- soil permeability
- avg. specific humidity
- soil slope
- gusty summer day percentage
- historical wind direction strike pot ential
- annual soil flood frequency
- soil drain
- coastal oak woodland CWHR
- canopy density
- avg. 20-yr S.P.E.I.
- normalized historical wind directi on strike potential
- local topography
- is soil hydric
- windy summer day percentage
- closed cone pine cypress CWHR
- coefficient of variation 4-yr CWD
- avg. energy release
- avg. wind speed
- avg. 100-hr fuels
- tree species
- avg. vapor pressure deficit
- soil liquid limit
- tier-2 tree mortality H.H.Z.
- soil horizon thickness
- soil clay content
- lodgepole pine CWHR
- soil erodibility factor
- blue oak woodland CWHR
- eucalyptus C.W.H.R
- maximum 20-yr CWD

3.5.2.3.1.6 Limitations and Opportunities

There are two significant opportunities to strengthen the vegetation models for future releases.

The first opportunity is to extend our modeling into the temporal domain. As vegetation grows and changes over the years, it is important to capture this change along with its interplay with a changing climate. Deep learning architectures such as Recurrent Neural Networks and Transformers will be

explored in the future to include this temporal dimension. In addition, the use of Planet Labs data products will be used to model tree conditions from 2016 onward to accurately reflect the changing vegetation conditions from growth, failure, and mitigation efforts by vegetation management.

The second area where improvement can be made is that tree mortality is not accurately captured by the CalFIRE dataset. Yearly tree mortality data has been purchased from Planet Labs, and is being prepared for use in future models. It is expected that the new tree mortality data will be included for the next version of the vegetation models.

3.5.2.3.2 Vegetation – Trunk Model

The Vegetation – Trunk model uses historical tree body, or trunk, failure events to model outage probability from tree falls striking a conductor.

3.5.2.3.2.1 Key Developments

During v4 development, we explored the issue of bark beetle infestation as a source of tree failures. A study was conducted to discern the cause of the infestations and it was found that the lack of water availability over the years, primarily due to Climate Change, was hampering the tree's immune system and natural defenses. These effects were captured by way of the following remotely sensed quantities and the surveyed tree mortality map by CalFIRE:

- The Standardized Precipitation and Evapo-Transpiration Index – An index used to quantify regional water availability.
- The Climatic Water Deficit – This quantity represents the water use of trees in the area.
- California High Hazard Zones – This CalFIRE product was used to give the model a sense of the tree mortality rate in any given area.

Other important model developments for v4 include:

- Planet Labs Tree Canopy Density – Similar to counting the number of strike trees around an asset, a measure of the canopy density was used to quantify the amount of material that was available to be ejected from any given tree.
- Wind Strike Potential – New attributes were introduced to consider the relative position of trees to conductors along with wind speed and direction to when predicting branch strike potential.
- Tree Failure Locations – Tree failures were attributed to actual tree locations for v4, whereas v3 used the locations of triggered protective devices.

3.5.2.3.2.2 Performance

The v4 Vegetation – Trunk outage model demonstrated excellent model performance with an AUC of 0.88, as shown in *Figure 70*.

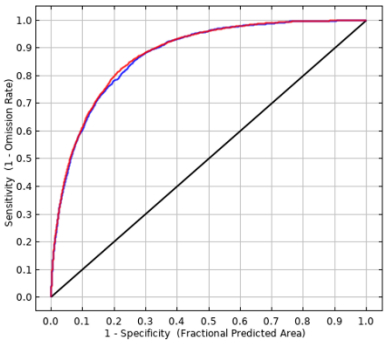


Figure 70 - Vegetation-Trunk ROC Curve

3.5.2.3.2.3 Model Data

Table 27 presents a summary of event counts used for v4 development:

Table 27 - Vegetation - Trunk Event Summary

Event Type	Value
Outage Count	4630
Ignition Count	344
Ignitions Per Outage	0.074

In addition to updated target events, newly added covariates were also generated by various base data:

- The Standardized Precipitation and Evapo-transpiration Index (SPEI) represents water availability. This index measures the deviation of drought conditions from a multi-year baseline quantifying the onset, duration, and magnitude of drought.
- The Climatic Water Deficit (CWD) measures vegetation water use. The CWD data comes from the USGS Water Basin Characterization Model.
- As a proxy for tree mortality, both tier-1 and tier-2 CalFIRE California High Hazard Zones were implemented as covariates.
- Canopy Density was implemented from a dataset from Planet Labs.
- The following new wind covariates were developed:
  - The normalized historical wind direction and strike potential
  - The historical wind direction and strike potential
  - The wind damage and strike potential
  - The normalized wind damage and strike potential which measure different ways in which a wind's magnitude and direction interplay with a tree's location and a conductor's location to ultimately propel matter into a conductor.

3.5.2.3.2.4 Algorithm Selection

The MaxEnt algorithm, which was used for v3, was retained for v4. A significant issue for the vegetation models is inability to determine a target probability of a vegetation failure causing damage to an electrical asset. Unfortunately, a vegetation failure is only recorded as failure if it impacts an electrical asset. Therefore, no information is available about how many benign vegetation failures occur that do not result in an asset problem. The MaxEnt algorithm is particularly suited for modeling vegetation failures as it only requires knowledge of known asset failure locations caused by falling branches or tree trunks and does not require data on failures that did not result in an asset impact.

3.5.2.3.2.5 Covariate Selection

Figure 71 presents the total gains feature importance that account for 95% of the Vegetation - Trunk model performance. Top features include strike tree counts, strike tree height, and subtypecd.

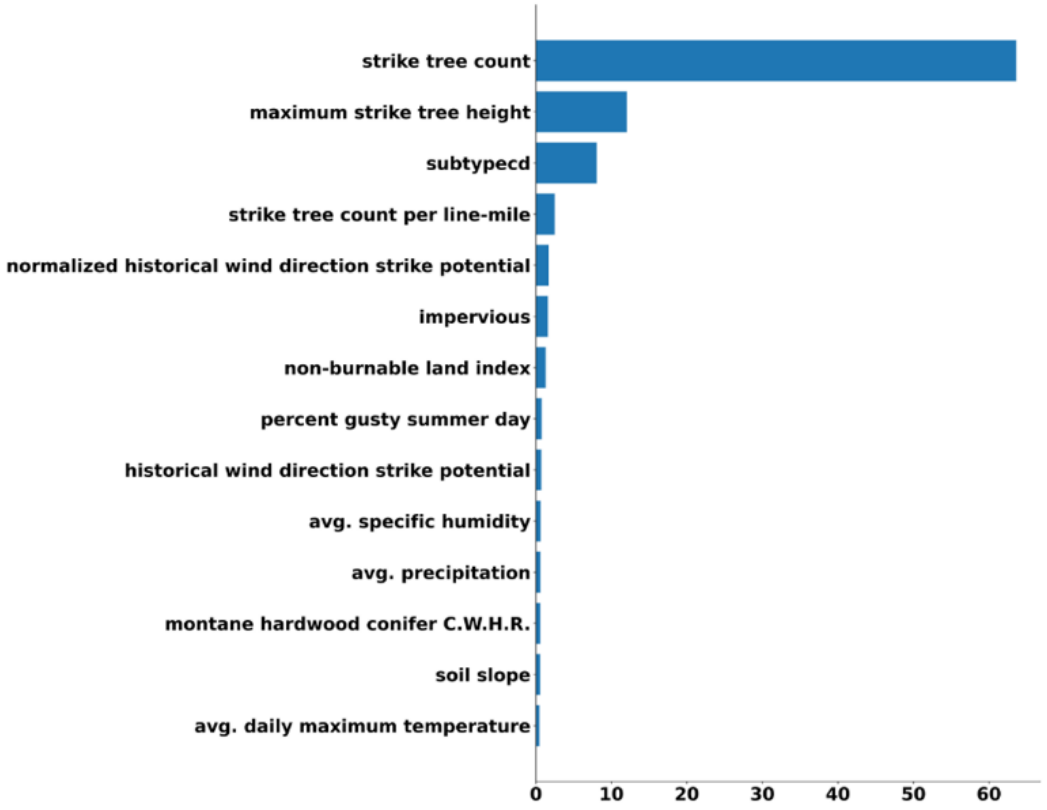


Figure 71 - Vegetation-Trunk Top Feature Performance

There are numerous additional covariate features that marginally contribute to the Trunk model, accounting for the remaining 5% of model performance:

- avg. 1000-hr fuels
- avg. vapor pressure deficit
- soil hydro-group
- eucalyptus CWHR
- maximum 20-yr CWD
- canopy density
- soil clay content
- avg. wind speed
- normalized wind damage and str ike potential
- soil permeability
- tier-2 tree mortality H.H.Z.
- blue oak foothill pine CWHR
- juniper CWHR
- wind damage / strike potential
- avg. 20-yr S.P.E.I.
- coefficient of variation 4-yr CWD
- coefficient of variation 20-yr CW D
- tree species
- soil horizon thickness
- avg. burn index
- local topography
- white fir CWHR
- operating voltage
- closed cone pine cypress CWHR
- valley foothill riparian CWHR
- windy summer day percentage
- coastal oak woodland CWHR
- montane riparian CWHR
- avg. strike tree height
- avg. energy release
- soil erodibility factor
- sierran mixed conifer CWHR
- red fir CWHR
- soil drain
- maximum 4-yr CWD
- pinyon juniper CWHR
- is soil hydric
- tier-3
- ponderosa pine CWHR
- sub-alpine conifer CWHR
- coastal
- maximum 20-yr S.P.E.I.
- douglas fir CWHR

3.5.2.3.2.6 Limitations and Opportunities

There are two significant opportunities to strengthen the vegetation models for future releases.

The first opportunity is to extend our modeling into the temporal domain. As vegetation grows and changes over the years, it is important to capture this change along with its interplay with a changing climate. Deep learning architectures such as Recurrent Neural Networks and Transformers will be explored in the future to include this temporal dimension. In addition, the use of Planet Labs data products will be used to model tree conditions from 2016 onward to accurately reflect the changing vegetation conditions from growth, failure, and mitigation efforts by vegetation management.

The second area where improvement can be made is that tree mortality is not accurately captured by the CalFIRE dataset. Yearly tree mortality data has been purchased from Planet Labs, and is being prepared for use in future models. It is expected that the new tree mortality data will be included for the next version of the vegetation models.

3.5.2.3.3 Vegetation – Other Model

The Vegetation – Other model uses historical failure events related to third-party, snow load, wind, and unclassified events to model outage probability.

3.5.2.3.3.1 Key Developments

During v4 development, we explored the issue of bark beetle infestation as a source of tree failures. A study was conducted to discern the cause of the infestations and it was found that the lack of water availability over the years, primarily due to Climate Change, was hampering the tree's immune system and natural defenses. These effects were captured by way of the following remotely sensed quantities and the surveyed tree mortality map by CalFIRE:

- The Standardized Precipitation and Evapo-Transpiration Index – An index used to quantify regional water availability.
- The Climatic Water Deficit – This quantity represents the water use of trees in the area.
- California High Hazard Zones – This CalFIRE product was used to give the model a sense of the tree mortality rate in any given area.

Other important model developments for v4 include:

- Planet Labs Tree Canopy Density – Similar to counting the number of strike trees around an asset, a measure of the canopy density was used to quantify the amount of material that was available to be ejected from any given tree.
- Wind Strike Potential – New attributes were introduced to consider the relative position of trees to conductors along with wind speed and direction to when predicting branch strike potential.
- Tree Failure Locations – Tree failures were attributed to actual tree locations for v4, whereas v3 used the locations of triggered protective devices.

3.5.2.3.3.2 Performance

The v4 Vegetation – Other outage model demonstrated excellent model performance with an AUC of 0.88, as shown in *Figure 72*.

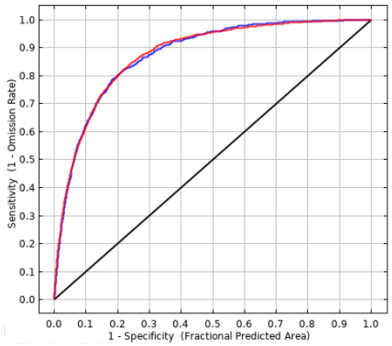


Figure 72 - Vegetation-Other ROC Curve

3.5.2.3.3.3 Model Data

Table 28 presents a summary of event counts used for v4 development:

Table 28 - Vegetation - Other Event Summary

Event Type	Value
Outage Count	1931
Ignition Count	233
Ignitions Per Outage	0.115

3.5.2.3.3.4 Algorithm Selection

The MaxEnt algorithm, which was used for v3, was retained for v4. A significant issue for the vegetation models is inability to determine a target probability of a vegetation failure causing damage to an electrical asset. Unfortunately, a vegetation failure is only recorded as failure if it impacts an electrical asset. Therefore, no information is available about how many benign vegetation failures occur that do not result in an asset problem. The MaxEnt algorithm is particularly suited for modeling vegetation failures as it only requires knowledge of known asset failure locations caused by falling branches or tree trunks and does not require data on failures that did not result in an asset impact.

3.5.2.3.3.5 Covariate Selection

Figure 73 presents the total gains feature importance that account for 95% of the Vegetation - Other model performance. Top features include strike tree counts, the impervious and non-burnable land indices that indicate urban environments, subtypecd, and strike tree height.

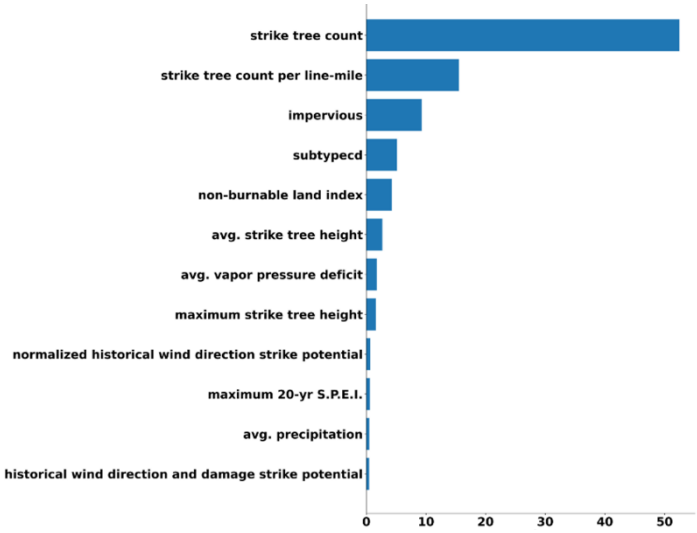


Figure 73 - Vegetation-Other Top Feature Performance

There are numerous additional covariate features that marginally contribute to the Other model, accounting for the remaining 5% of model performance:

- tier-2 tree mortality H.H.Z.
- avg. burn index
- operating voltage
- Coefficient of variation 20-yr S.P.E.I.
- coastal oak woodland CWHR
- blue oak woodland CWHR
- available soil water capacity
- soil hydro-group
- avg. 20-yr S.P.E.I.
- soil erodibility factor
- tier-3
- avg. energy release
- maximum wind speed
- soil permeability
- canopy density
- closed cone pine cypress CWHR
- historical wind direction strike potential
- windy summer day percentage
- tree species
- soil slope
- soil organic matter
- ponderosa pine CWHR
- avg. specific humidity
- annual soil flood frequency
- avg. 1000-hr fuels
- soil liquid limit
- gusty summer day percentage
- valley foothill riparian CWHR
- klamath mixed conifer CWHR
- local topography
- montane riparian CWHR
- normalized wind damage and strike potential
- soil clay content
- juniper CWHR
- jeffrey pine CWHR
- montane hardwood CWHR
- minimum 20-yr S.P.E.I.
- redwood CWHR
- avg. wind speed

3.5.2.3.3.6 Limitations and Opportunities

There are two significant opportunities to strengthen the vegetation models for future releases.

The first opportunity is to extend our modeling into the temporal domain. As vegetation grows and changes over the years, it is important to capture this change along with its interplay with a changing climate. Deep learning architectures such as Recurrent Neural Networks and Transformers will be

explored in the future to include this temporal dimension. In addition, the use of Planet Labs data products will be used to model tree conditions from 2016 onward to accurately reflect the changing vegetation conditions from growth, failure, and mitigation efforts by vegetation management.

The second area where improvement can be made is that tree mortality is not accurately captured by the CalFIRE dataset. Yearly tree mortality data has been purchased from Planet Labs and is being prepared for use in future models. It is expected that the new tree mortality data will be included for the next version of the vegetation models.

3.6 Probability of Ignition Model

The probability of ignition p(i) is the likelihood that an asset-based ignition will occur during a fire season. Probability of ignition is predicted by the Probability of Ignition Given Outage model using the probability of outage predictions from all of the Asset Equipment and Contact From Object models along with other attributes such as environmental conditions. Fire season probability of ignitions are individually predicted for each specific Asset Equipment and Contact From Object model.

3.6.1 Probability of Ignition Given Outage

The Probability of Ignition Given Outage model, p(i|o), takes as its input the results from an Asset Equipment or Contact From Object model, p(o). The percentage of outages that result in an ignition varies, as one would expect, on the outage type. The p(i|o) model uses failure model-specific attributes and environmental conditions to determine the likelihood that a given outage is likely to result in an ignition.

For asset-based event models, the probability of ignition for a given asset is the product of its probability of ignition given an outage and its probability of an outage:

$$p(i)_{asset} = p(i|o)_{asset} * p(o)_{asset}$$

For Contact From Object models, which are location, pixel-based models, the probability of ignition for a given location is the product of the location probability of ignition given outage and the location probability of outage for a specific model:

$$p(i)_{loc} = p(i|o)_{loc} * p(o)_{loc}$$

Individual asset and contact from object probabilities can be composited to determine a summed probability of ignition for a location:

$$p(i)_{loc} = \sum_{loc/asset} p(i|o)_{loc/asset} * p(o)_{loc/asset}$$

Where:

asset	Modeled asset type: conductor, transformer, support structure, etc.
loc	Asset location expressed as a 100m square pixel within the PG&E service territory
p(i)	Probability of Ignition
p(i|o)	Probability of Ignition given an Outage
p(o)	Probability of Outage

3.6.1.1 Key Developments

The p(i|o) model developed for the DEPM v4 provides two substantial improvements over the v3 model:

- Event cause and equipment type interaction terms
- EPSS compensation

The p(i|o) model correlates to failure/outage rates, weather conditions, fuel conditions and availability, and other location-specific attributes. However, the correlation between fuel and weather conditions and ignition outcomes also depends on the nature of the underlying events. Specifically, some events, like transformer failures predominantly result in pole fires that are not influenced by fuels on the ground, while others, like insulator tracking faults, require moisture and condensation for an event to occur. The introduction of event cause and equipment type labels for events allowed the use of interaction terms that

produce separate weather and fuels correlation terms for distinct groups of events that share the same characteristics.

An important purpose for the p(i|o) model is to support tradeoffs between mitigation strategies, including EPSS. Therefore, the v4 p(i|o) model needed to be calibrated to predict the number of ignitions that would be expected without EPSS. Section *3.3* explains how the ignitions event training data was modified to account for EPSS impacts.

3.6.1.2 Performance

Table 29 provide an overview of the p(i|o) performance for the entire suite of probability of failure/outage models. The important outcome to understand from this table is whether the p(i|o) model improves the ability to predict ignitions against the assumption that you can directly predict an ignition from the prediction of a failure/outage. The Delta AUC column highlights the p(i|o) improvement for predicting ignitions, where a positive number is an improvement, a negative number is a degradation. Note that the two models that show the most degradation using the p(i|o) model are also low performing probability of failure/outage models.

Table 29 – p(i|o) Predictive Performance Gain

Event Model	p(o) AUC	p(i) AUC	Delta AUC	p(o) Conc. Factor	p(i) Conc. Factor
Animal – Bird	0.651	0.683	**0.032**	1.79	2.16
Animal – Squirrel	0.839	0.852	0.013	3.70	3.91
Animal - Other	0.741	0.756	0.015	2.53	2.93
Capacitor Bank	0.558	0.549	-0.009	1.40	1.40
DPD	0.625	0.475	-0.151	1.00	1.50
Fuse	0.669	0.681	0.013	2.00	2.10
Primary Conductor – Line Slap	0.770	0.757	-0.013	3.33	3.33
Primary Conductor – Wire Down	0.628	0.639	0.010	1.91	1.78
Primary Conductor - Other	0.694	0.706	0.013	2.75	2.50
Secondary Conductor	0.718	0.728	0.010	2.49	2.59
Support Structure - Electrical	0.854	0.848	-0.006	3.90	3.70
Support Structure - Equipment	0.602	0.654	**0.052**	1.63	2.02
Switch	0.637	0.608	-0.029	1.67	1.67
Third-Party - Balloon	0.801	0.817	0.016	3.25	3.42
Third-Party - Vehicle	0.681	0.712	**0.031**	1.85	2.23
Third-Party - Other	0.613	0.672	**0.060**	1.78	2.05
Transformer – Equipment	0.725	0.748	0.023	2.94	3.53
Transformer – Leaking	0.865	0.845	-0.019	5.00	5.00
Vegetation - Branch	0.804	0.824	0.020	3.20	3.43
Vegetation - Trunk	0.825	0.832	0.007	3.40	3.45
Vegetation - Other	0.760	0.771	0.010	2.57	2.74
Voltage Regulator	0.739	0.720	-0.019	2.00	2.00
Other Equipment	0.640	0.650	0.010	1.82	2.05

The p(i|o) model was fit using a random selection of 75% of the target set data, with the remaining 25% set aside for predictive performance testing. The model classification performance is illustrated in *Figure 74* showing the training and testing ROC curves. The ROC curve indicates the degree to which model assigns elevated ignition probabilities to outages that were associated with real ignitions. The curve demonstrates that the p(i|o) model performs very well, capturing 80% of true ignitions after covering just under 25% of the target set in rank order.

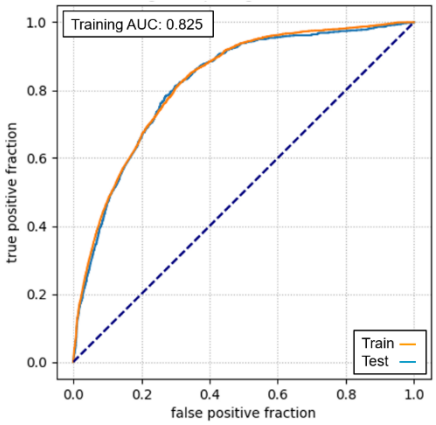


Figure 74 - p(i|o) ROC Curve

3.6.1.3 Model Data

The various outage types predicted by the Asset Equipment and Contact From Object event models have different physical pathways to ignition and, therefore, different rates of ignitions as shown in *Table 30*. A few examples of different ignition routes include:

- Conductor and tree trunk failures often lead to wire down events, placing fault current directly in contact with ground fuels.
- Conductor line slap and branch contacts may cause phase faults, with arcing or combustion that can lead to molten metal, sparks, or flaming branches falling onto ground fuels.
- Equipment tracking, with current arcing across damp, dirty equipment, can often lead to pole fires, which in many cases fail to ignite ground fuels at all.

Table 30 – Outage and Ignition Event Counts Summary

Event Model	Outages (count)	Ignitions (count)	Ignitions per Outage
Animal – Bird	5,429	259	4.77%
Animal – Squirrel	4,488	51	1.14%
Animal - Other	1,291	105	8.13%
Capacitor Bank	370	125	**33.78%**
DPD	624	70	11.22%
Fuse	4,474	245	5.48%
Primary Conductor – Line Slap	938	39	4.16%
Primary Conductor – Wire Down	5,317	553	10.40%
Primary Conductor - Other	1,961	191	9.74%
Secondary Conductor	3,318	223	6.72%
Support Structure - Electrical	4,033	**835**	20.70%
Support Structure - Equipment	4,314	212	4.91%
Switch	790	59	7.47%
Third-Party - Balloon	2,420	120	4.96%
Third-Party - Vehicle	8,347	305	3.65%
Third-Party - Other	2,785	151	5.42%
Transformer – Equipment	14,297	292	2.04%
Transformer – Leaking	753	**1**	**0.13%**
Vegetation - Branch	7,392	428	5.79%
Vegetation - Trunk	4,630	344	7.43%
Vegetation - Other	1,931	223	11.55%
Voltage Regulator	**286**	29	10.14%
Other Equipment	**54,053**	201	0.37%
All Event Models	**134,241**	**5,061**	**3.77%**

3.6.1.4 Algorithm Selection

The v4 p(i|o) model, like the v3 version, is a Logistic Regression model. Random Forest models were also examined but were found to produce similar predictive power but with worse interpretability. Logistic Regression is well-suited for isolating the impact of weather and fuel conditions on ignition rates and supports a semi-causal interpretation of model results.

The introduction of event cause and equipment type interaction terms for v4 required the implementation of a more sophisticated feature generation and selection approach, not just for model training, but also for predicting at all locations across all representative days to produce marginalized expected annual ignition

3.6.1.5 Covariate Selection

The multiple paths to ignition events are influenced differently by environmental conditions such as fuel moisture and wind. Therefore, the p(i|o) model must reflect that the outages predicted by each outage event model have their own unique interaction with environmental variables.

Unfortunately, from a modeling perspective, many of the event models do not have enough historical ignitions that can be used for p(i|o) model training. The lack of sufficient training data makes it likely that a model would be over-fit and subsequently perform poorly against test data. To compensate, outage event models with similar ignition behaviors in response to environmental conditions were grouped together to improve p(i|o) model performance. Optimal performance was achieved using the model groups defined in *Table 31*.

Table 31 - p(i|o) Modeling Groups

Model Group	Member Models	Outages (count)	Ignitions (count)	Ignitions per Outage
1	Vegetation – Branch, Vegetation – Trunk	12,022	751	6.2%
2	Support Structure – Electrical	4,033	713	17.7%
3	Animal – Squirrel, Third-Party – Balloon, Third-Party – Vehicle, Third-Party – Other	18,040	613	3.4%
4	Primary Conductor – Wire Down	5,317	515	9.7%
5	DPD, Capacitor Bank, Fuse, Switch, Voltage Regulator	6,544	498	7.6%
6	Animal – Bird, Animal – Other, Primary Conductor – Line Slap, Transformer – Leaking	8,411	388	4.6%
7	Transformer – Equipment	14,297	269	1.9%
8	Secondary Conductor	3,318	220	6.6%
9	Vegetation – Other	1,931	209	10.8%
10	Other Equipment	54,053	188	0.3%
11	Support Structure – Equipment	4,314	187	4.3%
12	Primary Conductor – Other	1,961	179	9.1%

Many combinations of model-grouped and ungrouped attributes were tested as features in the p(i|o) model. *Figure 75* presents the total gains feature importance for the highest performing features in the p(i|o) model.

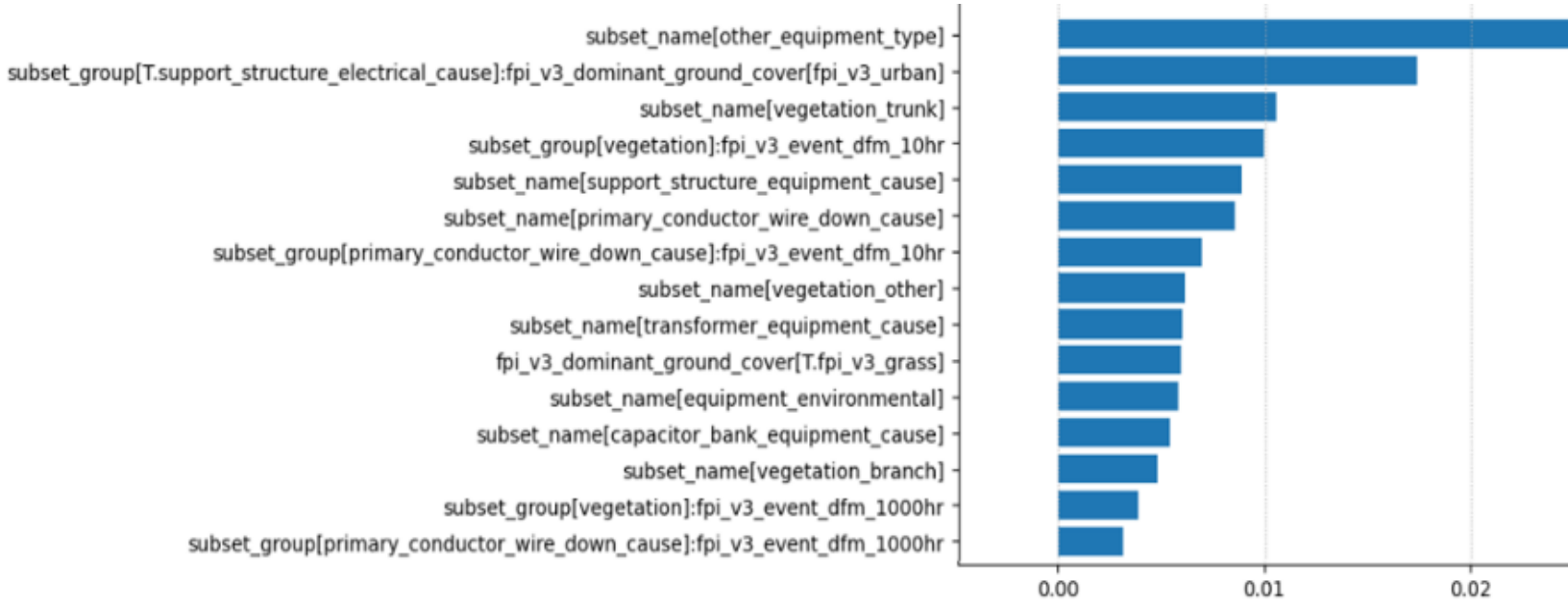


Figure 75 - p(i|o) Top Feature Importance

Other covariate features that moderately contribute to the p(i|o) model include:

- subset_group [vegetation other]: fpi v3 event dfm 10hr
- subset_group [T.support structure equipment]: fpi v3 dominant ground cover [fpi v3 urban]
- subset_group [T.vegetation]: fpi v3 dominant ground cover [fpi v3 grass shrub]
- subset_name [animal squirrel]
- subset_group [other2]: fpi v3 event dfm 1000hr
- fpi_dominant_ground_cover[T.fpi v3 shrub]
- subset_group [support structure electrical]: fpi v3 event dfm 1000hr
- subset_group [other2]: fpi v3 event dfm 10hr
- subset_group [T.other2]: fpi v3 dominant ground cover [fpi v3 grass shrub
- subset_name [transformer leaking]
- subset_group [T.vegetation other]: fpi v3 dominant ground cover [fpi v3 grass shrub]
- subset_group [T.other equipment]: fpi v3 dominant ground cover [fpi v3 grass]
- subset_group [T.protection actuation]: fpi v3 dominant ground cover [fpi v3 grass]
- subset_group [support structure equipment]: fpi v3 event dfm 10hr

- subset_group [T.support structure electrical]: fpi v3 dominant ground cover [fpi v3 timber litter]
- subset_group [T.transformer equipment]: fpi v3 dominant ground cover [fpi v3 timber litter]
- subset_group [secondary conductor]: fpi v3 event dfm 10hr
- subset_group [other equipment]: fpi v3 event dfm 10hr
- subset_group [primary conductor other]: fpi v3 event dfm 1000hr
- subset_group [sother1]: fpi v3 event dfm 10hr
- subset_group [T.transformer equipment]: fpi v3 dominant ground cover [fpi v3 grass]]
- subset_group [T.primary conductor other]: fpi v3 dominant ground cover [fpi v3 grass shrub]
- subset_name [DPD]
- subset_group [T.primary conductor wire down]: fpi v3 dominant ground cover [fpi v3 grass shrub]
- subset_group [other1]: fpi v3 event dfm 1000hr
- subset_group [T.secondary conductor]: fpi v3 dominant ground cover [fpi v3 grass]
- subset_group [vegetation other]: fpi v3 event dfm 1000hr
- subset_group [T.support structure equipment]: fpi v3 dominant ground cover [fpi v3 shrub]
- subset_group [T.transformer equipment]: fpi v3 dominant ground cover [fpi v3 shrub]
- subset_group [transformer equipment]: fpi v3 event dfm 1000hr
- subset_group [transformer equipment]: fpi v3 event dfm 10hr
- subset_group [T.primary conductor other]: fpi v3 dominant ground cover [fpi v3 timber understory]
- subset_group [T.support structure equipment]: fpi v3 dominant ground cover [fpi v3 timber understory]
- subset_group [T.vegetation other]: fpi v3 dominant ground cover [fpi v3 shrub]
- subset_group [support structure electrical]: fpi v3 event dfm 10hr

3.6.1.6 Limitations and Opportunities

One of the defining features of the p(i|o) model is the relative scarcity of ignition data and the diversity of underlying causes and characteristics of related grid failure and outage events. This limits the approaches available to predict ignition rates and requires the introduction of model structure and other assumptions based on first principles. Future work can continue to refine the event groupings that provide shared response to weather and fuel conditions. Model structures capable of predicting well based upon limited training data should continue to be tested as possible alternative algorithms.

The ideal p(i|o) model would have perfect information about fault current, duration, and path to ground as well as finer resolution in time and space of fuel conditions, soil moisture, etc. While this data that is not currently sensed and available, knowledge about their potential influence can factor into model structure and assumptions as well as guide future data gathering initiatives.

4 Future Plans

Several future developments are planned for the distribution event probability models. *Figure 76* provides an overview of RaDA team development plans with Distribution Event Probability Model plans in highlighted in blue font.

Products	2026 WMP	Future WMP

Event Probability Models	• Data Quality Improvement
	• Model Refresh / Calibration
	• Asset Models – Distribution
	  • Switches
	  • Fuses
	  • Capacitor Banks
	  • Voltage Regulators
	• Asset Health – Tags
	• Work Plan Model Causality
	• Animal/Third Party – Distribution
	• Vegetation
	  • Tree Mortality
	  • Time Series Update
	• Insulator Contamination Update
		• Data Quality Improvements
		• Model Refresh / Calibration
		• Full Year Models
		• Asset Model – Distribution
		  • Secondary Conductor
		• Underground Assets
		• Lightning
		• Seismic – Distribution
		• Third Party – Transmission

Risk Models	• WDRM v4 • WTRM v2 • Public Safety Risk Model v2 • Reliability Risk Model v1 • Integrated Grid Planning	• WDRM Update • WTRM Update • Risk Mitigation Automation • Risk Reduction Reporting
Consequence Models	• Wildfire Consequence v4 • Wildfire Egress Impact • Wildfire Suppression Impact • Public Safety Consequence v2 • Reliability Consequence v1	• Wildfire Consequence Update • Conflagration • Vulnerable Communities • WUI Population Growth

Figure 76 - RaDA Product Plan – Distribution Event Probability Models

General development plans for all event probability of failure/outage models include:

- Develop suite of probability of outage given failure models to support reliability risk modeling.
- Improved situational awareness of model performance during wildfire season.
- Enhanced tooling to identify and explain changes between model releases.
- Enhanced tooling for automation and ML operations.

The Equipment Asset models will be expanded by developing:

- New Underground equipment models for:
  - Conductors
  - Switches
  - Transformers
- Secondary Conductor model will be transitioned from a spatial pixel model into an asset model.
- Improved equipment failure reporting in the Asset Failure Data Collection.

The Contact From Object models will be improved through:

- Migration to temporal use of multi-year satellite imagery.
- Potential use of inspections and tags as features, especially for the Vegetation models.
- Failure location data quality enhancements.

The Equipment Asset models will also undergo specific development for integration with Integrated Grid Planning (IGP):

- Enhance probability of failure models to predict for both wildfire season and full calendar year.
- Create a methodology to expand predictions from 1-year to 10-year failure probabilities.

Future Probability of Ignition model development will explore:

- Incorporation of new and improved FPI model predictions from Meteorology.
- Improvements to the model data pipeline, including a more flexible feature regularization approach.
- Additional data informing estimates of the effectiveness of the EPSS program.
- Exploratory work on imputing and incorporating fault characteristics into the model.

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP016A

EPSS TOY PROBLEM

WP016A – EPSS Toy Problem

EPSS Outage Risk Calculation Flow - Circuit Segment Level

Analysis for Example Circuit Segment: OAKLAND K 1103CR188 (Low Risk Category)

Overview

This guide shows how data flows from raw WDRM model outputs to final circuit segment EPSS outage risk through 6 datasets.

Attachment: The supplemental Excel file, *EPSS Toy Problem Calculations (Attach. B, WP016B)*, supports this Workpaper (*Attach. B,* WP016A) by providing example data that traces how raw WDRM model outputs flow through six datasets to calculate final circuit segment EPSS outage risk. The file includes examples for three circuit segments representing high, medium, and low risk levels, classified along two dimensions: the expected number of EPSS-attributable outages per wildfire season and the typical customer-minutes of interruption per such event. Please reference the Index sheet in the supplemental Excel file to identify the corresponding sheets for each risk-level example.

Note, this workpaper walks through the low-risk example for OAKLAND K 1103CR188, while the supporting excel file contains the corresponding inputs and outputs for all three risk-level examples.

Core Equation:

EPSS Outage Risk ($) = Σ (prob_epss_failure_s × dollarized_consequence_epss_enabled_s)
− Σ (prob_non_epss_failure_s × dollarized_consequence_epss_disabled_s)

for all subsets s (23 failure mode subsets across conductors and structures)

where: dollarized_consequence = customers_impacted x outage_duration x customer_value_of_service

Calculation Flow:

Dataset 1: Raw WDRM Probability of Failure (PoF) (wdrm_cs_pof)
↓ (multiply by enablement rate)
Dataset 2: EPSS Enablement (epss_enablement)
↓ (multiply by sustained outage fraction)
Dataset 3: Sustained Outage Fraction (sustained_outage_fraction)
↓ (datasets 1, 2, and 3 combine to produce dataset 4)
Dataset 4: EPSS PoF (cs_epss_pof)

↓ (combine with consequence)
Dataset 5: Consequence (cs_consequence)
↓ (PoF × Consequence = Risk)
Dataset 6: Final EPSS Outage Risk (cs_epss_outage_risk)

The 23 Failure Mode Subsets:

#	Subset Name	Asset Type
1	primary_conductor_line_slap_cause	Conductor
2	primary_conductor_wire_down_cause	Conductor
3	primary_conductor_other_cause	Conductor
4	third_party_balloon	Conductor
5	third_party_other	Conductor
6	vegetation_branch	Conductor
7	vegetation_trunk	Conductor
8	vegetation_other	Conductor
9	other_equipment_type	Conductor
10	secondary_conductor	Conductor
11	capacitor_bank_equipment_cause	Structure
12	dpd_equipment_cause	Structure
13	fuse_equipment_cause	Structure
14	support_structure_equipment_cause	Structure
15	support_structure_electrical_cause	Structure
16	switch_equipment_cause	Structure
17	transformer_equipment_cause	Structure
18	transformer_equipment_leaking	Structure
19	voltage_regulator_equipment_cause	Structure
20	animal_bird	Structure
21	animal_squirrel	Structure
22	animal_other	Structure
23	third_party_vehicle	Structure

Note: switch_equipment_cause, transformer_equipment_cause, and transformer_equipment_leaking are zeroed out. Their PoF is set to 0 because these failure modes are considered independent of EPSS.

Dataset 1: Raw WDRM PoF (wdrm_cs_pof)

What is this?

The WDRM v4 (Wildfire Risk Distribution Model version 4) predicts outage frequency during wildfire season (June–November) for each failure mode subset, aggregated to the circuit segment level.

One row = One circuit segment's wildfire-season failure rates across all 23 subsets.

These values represent the expected number of outages of this type on this circuit segment during a single wildfire season.

Where does it come from?

The WDRM v4 model is a source dataset to help build the EPSS model. The raw model predictions are consumed as an input and filtered to only circuit segments in HFTD (High Fire Threat District) or HFRA (High Fire Risk Area).

Key Columns

Column	Description
cs_name	Circuit segment identifier
circuit_name	Circuit name (multiple circuit segments to a circuit)
subset_name	Expected outage count during wildfire season for that failure mode

Example: OAKLAND K 1103CR188 (sample of subsets)

Subset	WDRM Failure Rate (outages/WF season)
vegetation_branch	0.2505
primary_conductor_wire_down_cause	0.1270
other_equipment_type	0.4051
animal_bird	0.0285
support_structure_equipment_cause	0.0604
transformer_equipment_cause	0.2068

Dataset 2: EPSS Enablement (epss_enablement)

What is this?

The historical fraction of wildfire season days that EPSS was enabled on the circuit containing our circuit segment. This is a circuit-level value (not circuit-segment-level) because EPSS is enabled/disabled at the circuit level.

Where does it come from?

Calculated from two historical periods:

- **2017–2020:** Retrospective estimates of EPSS enablement based on current criteria
- **2022–present:** historical count of days EPSS was enabled during fire season

Note, 2021 was a pilot year for EPSS and was excluded from the analysis

epss_enablement = total_days_epss_enabled / total_days_wf_season

(Each wildfire season = 183 days, June 1 – November 30)

Example: OAKLAND K 1103

Column	Value
circuit_name	OAKLAND K 1103
total_days_epss_enabled	139
total_days_wf_season	1,281
epss_enablement (days epss is enabled/ total wf season days)	**0.1085**

Dataset 3: Sustained Outage Fraction (sustained_outage_fraction)

What is this?

The system-wide fraction of outages that are sustained (as opposed to momentary) for each failure mode subset. This is not circuit-segment specific, it applies globally to all circuit segments.

Why does this matter?

When EPSS is enabled, all outages become sustained. When EPSS is NOT enabled, only ~83% of outages are naturally sustained. This fraction lets us calculate the counterfactual: "Of the outages during EPSS-enabled times, how many would have been sustained anyway?"

Where does it come from?

Derived from historical outage data:

- Filtered to: wildfire season (June–Nov), pre-2022 (EPSS deployed in 2022), non-EPSS events, HFTD/HFRA circuits
- sustained_outage_fraction = sustained_outage_count / outage_count

Example Rows (sample):

subset_name	outage_count	sustained_outage_count	sustained_fraction (sustained outages / total outages)
vegetation_branch	5,693	5,585	0.9810
primary_conductor_wire_down_cause	2,836	2,697	0.9510
other_equipment_type	33,470	22,310	0.6666
animal_bird	4,498	4,318	0.9600

Dataset 4: EPSS PoF (cs_epss_pof)

What is this?

The computed probability of failure values for our circuit segment under two scenarios:

- **prob_epss_failure_s** - Expected outage frequency for subset s during EPSS-enabled periods
- **prob_non_epss_failure_s** - Counterfactual outage frequency during those same periods, as if EPSS were not enabled

Calculations

For each subset:

- prob_epss_failure_s = WDRM_failure_rate_s (Dataset 1) × epss_enablement (Dataset 2)
- prob_non_epss_failure_s = prob_epss_failure_s × sustained_outage_fraction_s (Dataset 3)

Example: vegetation_branch

prob_epss_failure = 0.2505 × 0.1085 = 0.027176
prob_non_epss_failure = 0.027176 × 0.9810 = 0.026661

Example: animal_bird

prob_epss_failure = 0.0285 × 0.1085 = 0.003095
prob_non_epss_failure = 0.003095 × 0.9600 = 0.002971

Dataset 5: Consequence (cs_consequence)

What is this?

The expected impact of an outage on this circuit segment, how long it lasts and how many customers are affected. Values are averages across all assets (structures or conductors) on the circuit segment.

Key Concept

Consequence differs between EPSS-enabled and EPSS-disabled scenarios because more customers are impacted under EPSS since EPSS devices de-energize a wider section of the circuit than traditional protective devices.

Consequence is calculated separately for conductors and structures because they have different outage durations and different upstream EPSS devices.

Data Descriptions

Input Component	Description
expected_outage_duration	average outage duration in minutes, derived from 5 calendar years of historical outage data (2019–2024), filtered to sustained, non-major-event, distribution equipment failures, grouped by asset type and protective device type
mean_customers_impacted_by_EPSS	average number of customers who would lose power if an EPSS device trips, averaged across all conductors and structures on the circuit segment (each asset is mapped to its nearest upstream EPSS device's downstream customer count).
mean_customers_impacted_by_non_EPSS	average number of customers who would experience a sustained outage from an equipment failure, averaged across all conductors and structures on the circuit segment
avg_customer_value_of_service	Average cost per customer-minute of interruption, averaged across all EPSS devices serving this circuit segment. Derived from classifying each downstream customer as Residential ($0.08/customer-minute) or Non-Residential ($23.11/customer-minute) and averaging
Output Component	**Description**
CMI consequence	Customer-minutes interrupted per outage when EPSS is enabled/not-enabled
Dollarized consequence	Cost per outage when EPSS is enabled/not-enabled

Calculations

CMI and dollarized consequence are calculated separately for conductor and structure asset types.

cmi_consequence_epss_enabled_[asset type] =
mean_customers_impacted_by_EPSS_[asset type] × expected_outage_duration_[asset type]

cmi_consequence_epss_disabled_[asset type] =
mean_customers_impacted_by_non_EPSS_[asset type] ×
expected_outage_duration_[asset type]

dollarized_consequence_epss_enabled_[asset type] =
cmi_consequence_epss_enabled_[asset type] × avg_customer_value_of_service_[asset type]

dollarized_consequence_epss_disabled_[asset type] =
cmi_consequence_epss_disabled_[asset type] ×
avg_customer_value_of_service_[asset type]

Example: OAKLAND K 1103CR188

Column	Conductors	Structures
expected_duration (minutes)	250.55	259.72
mean_customers_impacted_by_EPSS	668	683.15
mean_customers_impacted_by_non_EPSS	241.96	193.13
avg_customer_value_of_service ($/min)	$1.2177	$1.2151

CMI (customers * duration)

cmi_consequence_epss_enabled_conductors = 668 × 250.55 = 167,367.81
cmi_consequence_epss_disabled_conductors = 241.96 × 250.55 = 60,623.61
cmi_consequence_epss_enabled_structures = 683.15 × 259.72 = 177,429.81
cmi_consequence_epss_disabled_structures = 193.13 × 259.72 = 50,160.73

Dollarized Consequence (CMI * value of service)

dollarized_consequence_epss_enabled_conductors = 167,367.81 × $1.2177 = $203,805.39
dollarized_consequence_epss_disabled_conductors = 60,623.61 × $1.2177 = $73,821.95
dollarized_consequence_epss_enabled_structures = 177,429.81 × $1.2151 = $215,592.45
dollarized_consequence_epss_disabled_structures = 50,160.73 × $1.2151 = $60,949.60

Dataset 6: Final EPSS Outage Risk (cs_epss_outage_risk)

What is this?

The final EPSS outage risk (in $), the combination of PoF (Dataset 4) × Consequence (Dataset 5). This captures the incremental risk attributable to EPSS: the additional sustained outage risk that would not exist if EPSS were not enabled.

Calculations

For each conductor subset s:

epss_outage_risk_dollarized_s = (prob_epss_failure_s × dollarized_consequence_epss_enabled_conductors)
− (prob_non_epss_failure_s × dollarized_consequence_epss_disabled_conductors)

For each structure subset s:

epss_outage_risk_dollarized_s = (prob_epss_failure_s × dollarized_consequence_epss_enabled_structures)
− (prob_non_epss_failure_s × dollarized_consequence_epss_disabled_structures)

Then:

epss_outage_risk_dollarized = Σ epss_outage_risk_dollarized_s (all 23 subsets)

Example: vegetation_branch (conductor subset)

From Dataset 4:
prob_epss_failure = 0.027176
prob_non_epss_failure = 0.026661

From Dataset 5:
dollarized_consequence_epss_enabled_conductors = 203,805.39
dollarized_consequence_epss_disabled_conductors = 73,821.95
Calculation:
risk_epss = 0.027176 × 203,805.39 = 5,538.67
risk_non_epss = 0.026661 × 73,821.95 = 1,968.15
epss_outage_risk_dollarized_vegetation_branch = 5,538.67 − 1,968.15 = $3,570.53

Example: animal bird (structure subset)

From Dataset 4:
prob_epss_failure = 0.003095
prob_non_epss_failure = 0.002971

From Dataset 5:
dollarized_consequence_epss_enabled_structures = 215,592.45
dollarized_consequence_epss_disabled_structures = 60,949.60

Calculation:
risk_epss = 0.003095 × 215,592.45 = 667.29
risk_non_epss = 0.002971 × 60,949.60 = 181.10
epss_outage_risk_dollarized_animal_bird = 667.29 − 181.10 = $486.19

Final Result: OAKLAND K 1103CR188

Column	Value
epss_outage_risk_dollarized	**$23,245.21**

Interpretation:

- The dollarized risk is **$23,245 per wildfire season** - this is the incremental cost attributable to EPSS converting momentary outages into sustained outages.

Sum Across All Subsets → Final Risk

epss_outage_risk_dollarized =
  $174.94 (primary_conductor_line_slap_cause)
+ $1,840.78 (primary_conductor_wire_down_cause)
+ $656.65 (primary_conductor_other_cause)
+ $100.04 (third_party_balloon)
+ $403.71 (third_party_other)
+ $3,570.53 (vegetation_branch)
+ $2,467.83 (vegetation_trunk)
+ $1,523.69 (vegetation_other)
+ $6,795.42 (other_equipment_type)
+ $288.70 (secondary_conductor)
+ $53.09 (capacitor_bank_equipment_cause)
+ $0 (dpd_equipment_cause)
+ $406.41 (fuse_equipment_cause)
+ $1,026.24 (support_structure_equipment_cause)
+ $472.97 (support_structure_electrical_cause)
+ $0 (switch_equipment_cause — zeroed)
+ $0 (transformer_equipment_cause — zeroed)
+ $0 (transformer_equipment_leaking — zeroed)
+ $0 (voltage_regulator_equipment_cause)
+ $486.19 (animal_bird)
+ $1,805.89 (animal_squirrel)
+ $90.91 (animal_other)
+ $1,081.23 (third_party_vehicle)

= $23,245.21

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP016B

EPSS TOY PROBLEM CALCULATIONS

Workpaper 016B
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Electrical Undergrounding Program
EPSS Toy Problem Calculations
Low Risk EPSS Enablement

circuit_id	circuit_name	total_days_epss_enabled	total_days_wf_season	epss_enablement
12101103	OAKLAND K 1103	139	1281	0.108508977

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Dataset Index

Background
This supplemental excel file supports this Workpaper EPSS Toy Problem (Attach. B, WP016A) by providing example data that traces how raw WDRM model outputs flow through six datasets to calculate final circuit segment EPSS outage risk. This file includes examples for three circuit segments representing high, medium, and low risk levels.

Worksheet	**Word Doc Reference**	**Data Set Name**
1-high_risk_wdrm_pof	Dataset 1	Raw WDRM PoF
2-high_risk_epss_enablement	Dataset 2	EPSS Enablement
3-high_risk_sustain_outage_frac	Dataset 3	Sustained Outage Fraction
4-high_risk_cs_epss_pof	Dataset 4	EPSS PoF
5-high_risk_cs-consequence	Dataset 5	Consequence
6-high_risk_cs_epss_outage_risk	Dataset 6	Final EPSS Outage Risk
1-med_risk_wdrm_pof	Dataset 1	Raw WDRM PoF
2-med_risk_epss_enablement	Dataset 2	EPSS Enablement
3-med_risk_sustain_outage_frac	Dataset 3	Sustained Outage Fraction
4-med_risk_cs_epss_pof	Dataset 4	EPSS PoF
5-med_risk_cs-consequence	Dataset 5	Consequence
6-med_risk_cs_epss_outage_risk	Dataset 6	Final EPSS Outage Risk
1-low_risk_wdrm_pof	Dataset 1	Raw WDRM PoF
2-low_risk_epss_enablement	Dataset 2	EPSS Enablement
3-low_risk_sustain_outage_frac	Dataset 3	Sustained Outage Fraction
4-low_risk_cs_epss_pof	Dataset 4	EPSS PoF
5-low_risk_cs-consequence	Dataset 5	Consequence
6-low_risk_cs_epss_outage_risk	Dataset 6	Final EPSS Outage Risk

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
High Risk WDRM PoF

cs_name	circuit_name	primary_conductor_line_slap_cause	primary_conductor_wire_down_cause	primary_conductor_other_cause	third_party_balloon	third_party_other	vegetation_branch	vegetation_trunk	vegetation_other	other_equipment_type	secondary_conductor	capacitor_bank_equipment_cause	dpd_equipment_cause	fuse_equipment_cause	support_structure_equipment_cause	support_structure_electrical_cause	switch_equipment_cause	transformer_equipment_cause	transformer_equipment_leaking	voltage_regulator_equipment_cause	animal_bird	animal_squirrel	animal_other	third_party_vehicle
TEMPLETON 2113CB	TEMPLETON 2113	0.035219466	0.263395452	0.136596402	0.028115542	0.069253834	0.206162268	0.092856343	0.040475157	3.196144964	0.073366286	0.014084725	0.008590066	0.059585722	0.172317377	0.112675333	0.011104523	0.610065216	0.028464763	*null*	0.60931882	0.117757879	0.056717084	0.19684357

Note: The rates above reflect the expected outage count during wildfire season for that specific failure mode

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Electrical Undergrounding Program
EPSS Toy Problem Calculations
High Risk EPSS Enablement

circuit_id	circuit_name	total_days_epss_enabled	total_days_wf_season	epss_enablement
183052113	TEMPLETON 2113	1227	1281	0.957845433

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Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
High Risk Sustained Outage Fraction

subset_name	outage_count	sustained_outage_count	sustained_outage_fraction
vegetation_trunk	5090	5001	0.982514735
other_equipment_type	33470	22310	0.666567075
third_party_other	1356	1307	0.963864307
third_party_balloon	643	575	0.894245723
primary_conductor_other_cause	1317	1239	0.940774487
transformer_equipment_leaking	0	0	0
vegetation_other	3434	3292	0.958648806
primary_conductor_line_slap_cause	457	435	0.951859956
voltage_regulator_equipment_cause	157	111	0.707006369
primary_conductor_wire_down_cause	2836	2697	0.950987306
third_party_vehicle	3788	3494	0.922386484
animal_other	401	382	0.952618454
capacitor_bank_equipment_cause	82	53	0.646341463
support_structure_equipment_cause	1069	1036	0.969130028
support_structure_electrical_cause	1749	1684	0.962835906
animal_bird	4498	4318	0.959982214
switch_equipment_cause	0	0	0
vegetation_branch	5693	5585	0.981029334
animal_squirrel	4336	4176	0.963099631
dpd_equipment_cause	331	225	0.679758308
secondary_conductor	1591	1578	0.991829038
fuse_equipment_cause	3409	3332	0.977412731
transformer_equipment_cause	0	0	0

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EPSS Toy Problem Calculations
High Risk EPSS PoF

cs_name	circuit_name	prob_epss_failure_primary_conductor_line_slap_cause	prob_epss_failure_primary_conductor_wire_down_cause	prob_epss_failure_primary_conductor_other_cause	prob_epss_failure_third_party_balloon	prob_epss_failure_third_party_other	prob_epss_failure_vegetation_branch	prob_epss_failure_vegetation_trunk	prob_epss_failure_vegetation_other
TEMPLETON 2113CB	TEMPLETON 2113	0.033734804	0.252292131	0.13083824	0.026930344	0.066334469	0.197471587	0.088942024	0.038768945

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Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
High Risk EPSS PoF
(Continued)

prob_epss_failure_other_equipment_type	prob_epss_failure_secondary_conductor	prob_epss_failure_capacitor_bank_equipment_cause	prob_epss_failure_dpd_equipment_cause	prob_epss_failure_fuse_equipment_cause	prob_epss_failure_support_structure_equipment_cause	prob_epss_failure_support_structure_electrical_cause	prob_epss_failure_switch_equipment_cause	prob_epss_failure_transformer_equipment_cause	prob_epss_failure_transformer_equipment_leaking
3.061412858	0.070273562	0.013490989	0.008227955	0.057073911	0.165053413	0.107925553	0	0	0

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
High Risk EPSS PoF
(Continued)

prob_epss_failure_voltage_regulator_equipment_cause	prob_epss_failure_animal_bird	prob_epss_failure_animal_squirrel	prob_epss_failure_animal_other	prob_epss_failure_third_party_vehicle	prob_non_epss_failure_primary_conductor_line_slap_cause	prob_non_epss_failure_primary_conductor_wire_down_cause	prob_non_epss_failure_primary_conductor_other_cause	prob_non_epss_failure_third_party_balloon	prob_non_epss_failure_third_party_other
0	0.58363325	0.112793847	0.0543262	0.188545711	0.032110809	0.239926614	0.123089278	0.024082345	0.063937427

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
High Risk EPSS PoF
(Continued)

prob_non_epss_failure_vegetation_branch	prob_non_epss_failure_vegetation_trunk	prob_non_epss_failure_vegetation_other	prob_non_epss_failure_other_equipment_type	prob_non_epss_failure_secondary_conductor	prob_non_epss_failure_capacitor_bank_equipment_cause	prob_non_epss_failure_dpd_equipment_cause	prob_non_epss_failure_fuse_equipment_cause	prob_non_epss_failure_support_structure_equipment_cause
0.193725419	0.087386849	0.037165802	2.040637014	0.06969936	0.008719786	0.005593021	0.055784768	0.159958219

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
High Risk EPSS PoF
(Continued)

prob_non_epss_failure_support_structure_electrical_cause	prob_non_epss_failure_switch_equipment_cause	prob_non_epss_failure_transformer_equipment_cause	prob_non_epss_failure_transformer_equipment_leaking	prob_non_epss_failure_voltage_regulator_equipment_cause	prob_non_epss_failure_animal_bird	prob_non_epss_failure_animal_squirrel	prob_non_epss_failure_animal_other	prob_non_epss_failure_third_party_vehicle
0.103914598	0	0	0	0	0.560277539	0.108631712	0.05175214	0.173912015

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
High Risk Consequence

cs_name	circuit_name	conductor_outage_expected_duration	conductor_outage_avg_customer_value_of_service	conductor_outage_mean_customers_impacted_by_EPSS	conductor_outage_mean_customers_impacted_by_non_EPSS	structure_outage_expected_duration	structure_outage_avg_customer_value_of_service	structure_outage_mean_customers_impacted_by_EPSS	structure_outage_mean_customers_impacted_by_non_EPSS	dollarized_consequence_with_epss_enabled_on_support_structures	dollarized_consequence_with_epss_disabled_on_support_structures	dollarized_consequence_with_epss_enabled_on_conductors	dollarized_consequence_with_epss_disabled_on_conductors	cmi_consequence_with_epss_enabled_on_support_structures	cmi_consequence_with_epss_disabled_on_support_structures	cmi_consequence_with_epss_enabled_on_conductors	cmi_consequence_with_epss_disabled_on_conductors
TEMPLETON 2113CB	TEMPLETON 2113	238.7726145	3.926093813	4946	1839.288714	248.9812511	3.386750872	3750.309278	1325.962914	3162401.304	1118101.612	4636596.464	1724229.589	933756.6961	330139.9052	1180969.351	439171.7751

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
High Risk EPSS Outage Risk

cs_name	circuit_name	epss_outage_risk_dollarized	epss_outage_annual_cmi	epss_outage_likelihood	epss_outage_consequence_dollarized	epss_outage_expected_outage_count_per_wf_season	epss_outage_risk_dollarized_primary_conductor_line_slap_cause	epss_outage_risk_dollarized_primary_conductor_wire_down_cause	epss_outage_risk_dollarized_primary_conductor_other_cause	epss_outage_risk_dollarized_third_party_balloon
TEMPLETON 2113CB	TEMPLETON 2113	16082076.31	4206095.681	1268.663144	12676.39592	1.117765077	101048.2672	756088.235	394409.9459	83341.6446

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
High Risk EPSS Outage Risk
(Continued)

epss_outage_risk_dollarized_third_party_other	epss_outage_risk_dollarized_vegetation_branch	epss_outage_risk_dollarized_vegetation_trunk	epss_outage_risk_dollarized_vegetation_other	epss_outage_risk_dollarized_other_equipment_type	epss_outage_risk_dollarized_secondary_conductor	epss_outage_risk_dollarized_capacitor_bank_equipment_cause	epss_outage_risk_dollarized_dpd_equipment_cause	epss_outage_risk_dollarized_fuse_equipment_cause	epss_outage_risk_dollarized_support_structure_equipment_cause
197323.3609	581568.9608	261713.2829	115673.5751	10676009.31	205652.4519	32914.31567	19766.53028	118117.5731	343115.5863

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Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
High Risk EPSS Outage Risk
(Continued)

epss_outage_risk_dollarized_support_structure_electrical_cause	epss_outage_risk_dollarized_switch_equipment_cause	epss_outage_risk_dollarized_transformer_equipment_cause	epss_outage_risk_dollarized_transformer_equipment_leaking	epss_outage_risk_dollarized_voltage_regulator_equipment_cause	epss_outage_risk_dollarized_animal_bird	epss_outage_risk_dollarized_animal_squirrel	epss_outage_risk_dollarized_animal_other	epss_outage_risk_dollarized_third_party_vehicle
225116.8309	0	0	0	0	1219235.33	235238.1151	113937.0928	401805.8974

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Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Medium Risk WDRM PoF

cs_name	circuit_name	primary_conductor_line_slap_cause	primary_conductor_wire_down_cause	primary_conductor_other_cause	third_party_balloon	third_party_other	vegetation_branch
SAN BENITO 210488772	SAN BENITO 2104	0.070924178	0.738140257	0.360581077	0.071864531	0.187618154	0.755527011

**The rates above reflect the expected outage count during wildfire season for that specific failure mode

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Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Medium Risk WDRM PoF
(Continued)

vegetation_trunk	vegetation_other	other_equipment_type	secondary_conductor	capacitor_bank_equipment_cause	dpd_equipment_cause	fuse_equipment_cause	support_structure_equipment_cause
0.459454075	0.173332082	5.09521003	0.152966927	0.003180321	*null*	0.262574631	0.386858194

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Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Medium Risk WDRM PoF

(Continued)

support_structure_electrical_cause	switch_equipment_cause	transformer_equipment_cause	transformer_equipment_leaking	voltage_regulator_equipment_cause	animal_bird	animal_squirrel	animal_other	third_party_vehicle
0.229234317	0.010505902	1.414839567	0.056205606	*null*	0.919576338	0.206373318	0.028622842	0.641293064

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Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Medium Risk EPSS Enablement

circuit_id	circuit_name	total_days_epss_enabled	total_days_wf_season	epss_enablement
182742104	SAN BENITO 2104	625	1281	0.487900078

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Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Medium Risk Sustained Outage Fraction

subset_name	outage_count	sustained_outage_count	sustained_outage_fraction
vegetation_trunk	5090	5001	0.982514735
other_equipment_type	33470	22310	0.666567075
third_party_other	1356	1307	0.963864307
third_party_balloon	643	575	0.894245723
primary_conductor_other_cause	1317	1239	0.940774487
transformer_equipment_leaking	0	0	0
vegetation_other	3434	3292	0.958648806
primary_conductor_line_slap_cause	457	435	0.951859956
voltage_regulator_equipment_cause	157	111	0.707006369
primary_conductor_wire_down_cause	2836	2697	0.950987306
third_party_vehicle	3788	3494	0.922386484
animal_other	401	382	0.952618454
capacitor_bank_equipment_cause	82	53	0.646341463
support_structure_equipment_cause	1069	1036	0.969130028
support_structure_electrical_cause	1749	1684	0.962835906
animal_bird	4498	4318	0.959982214
switch_equipment_cause	0	0	0
vegetation_branch	5693	5585	0.981029334
animal_squirrel	4336	4176	0.963099631
dpd_equipment_cause	331	225	0.679758308
secondary_conductor	1591	1578	0.991829038
fuse_equipment_cause	3409	3332	0.977412731
transformer_equipment_cause	0	0	0

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Medium Risk EPSS PoF

cs_name	circuit_name	prob_epss_failure_primary_conductor_line_slap_cause	prob_epss_failure_primary_conductor_wire_down_cause	prob_epss_failure_primary_conductor_other_cause	prob_epss_failure_third_party_balloon	prob_epss_failure_third_party_other	prob_epss_failure_vegetation_branch	prob_epss_failure_vegetation_trunk	prob_epss_failure_vegetation_other	prob_epss_failure_other_equipment_type	prob_epss_failure_secondary_conductor	prob_epss_failure_capacitor_bank_equipment_cause	prob_epss_failure_dpd_equipment_cause	prob_epss_failure_fuse_equipment_cause	prob_epss_failure_support_structure_equipment_cause	prob_epss_failure_support_structure_electrical_cause
SAN BENITO 210488772	SAN BENITO 2104	0.034603912	0.360138689	0.175927535	0.03506271	0.091538912	0.368621688	0.224167679	0.084568736	2.485953371	0.074632576	0.001551679	0	0.128110183	0.188748143	0.111843441

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Medium Risk EPSS PoF
(Continued)

prob_epss_failure_switch_equipment_cause	prob_epss_failure_transformer_equipment_cause	prob_epss_failure_transformer_equipment_leaking	prob_epss_failure_voltage_regulator_equipment_cause	prob_epss_failure_animal_bird	prob_epss_failure_animal_squirrel	prob_epss_failure_animal_other	prob_epss_failure_third_party_vehicle	prob_non_epss_failure_primary_conductor_line_slap_cause	prob_non_epss_failure_primary_conductor_wire_down_cause	prob_non_epss_failure_primary_conductor_other_cause	prob_non_epss_failure_third_party_balloon	prob_non_epss_failure_third_party_other	prob_non_epss_failure_vegetation_branch	prob_non_epss_failure_vegetation_trunk	prob_non_epss_failure_vegetation_other
0	0	0	0	0.448661367	0.100689558	0.013965087	0.312886936	0.032938078	0.342487322	0.165508137	0.031354679	0.08823109	0.361628689	0.220248048	0.081071718

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Medium Risk EPSS PoF
(Continued)

prob_non_epss_failure_other_equipment_type	prob_non_epss_failure_secondary_conductor	prob_non_epss_failure_capacitor_bank_equipment_cause	prob_non_epss_failure_dpd_equipment_cause	prob_non_epss_failure_fuse_equipment_cause	prob_non_epss_failure_support_structure_equipment_cause	prob_non_epss_failure_support_structure_electrical_cause	prob_non_epss_failure_switch_equipment_cause	prob_non_epss_failure_transformer_equipment_cause	prob_non_epss_failure_transformer_equipment_leaking	prob_non_epss_failure_voltage_regulator_equipment_cause	prob_non_epss_failure_animal_bird	prob_non_epss_failure_animal_squirrel	prob_non_epss_failure_animal_other	prob_non_epss_failure_third_party_vehicle
1.657054667	0.074022756	0.001002914	0	0.125216524	0.182921493	0.107686881	0	0	0	0	0.430706933	0.096974076	0.0133034	0.288602681

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Medium Risk Consequence

cs_name	circuit_name	conductor_outage_expected_duration	conductor_outage_avg_customer_value_of_service	conductor_outage_mean_customers_impacted_by_EPSS	conductor_outage_mean_customers_impacted_by_non_EPSS	structure_outage_expected_duration	structure_outage_avg_customer_value_of_service	structure_outage_mean_customers_impacted_by_EPSS	structure_outage_mean_customers_impacted_by_non_EPSS	dollarized_consequence_with_epss_enabled_on_support_structures	dollarized_consequence_with_epss_disabled_on_support_structures	dollarized_consequence_with_epss_enabled_on_conductors	dollarized_consequence_with_epss_disabled_on_conductors	cmi_consequence_with_epss_enabled_on_support_structures	cmi_consequence_with_epss_disabled_on_support_structures	cmi_consequence_with_epss_enabled_on_conductors	cmi_consequence_with_epss_disabled_on_conductors
SAN BENITO 210488772	SAN BENITO 2104	255.8050901	2.626314496	1221	184.0510083	262.7938036	2.630770216	1222.023958	199.8962264	844846.4	138198.2784	820297.8567	123649.9981	321140.3242	52531.48967	312338.0151	47081.18477

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Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Medium Risk EPSS Outage Risk

cs_name	circuit_name	epss_outage_risk_dollarized	epss_outage_annual_cmi	epss_outage_likelihood	epss_outage_consequence_dollarized	epss_outage_expected_outage_count_per_wf_season	epss_outage_risk_dollarized_primary_conductor_line_slap_cause	epss_outage_risk_dollarized_primary_conductor_wire_down_cause	epss_outage_risk_dollarized_primary_conductor_other_cause
SAN BENITO 210488772	SAN BENITO 2104	3781857.175	1439385.687	1349.97688	2801.423663	0.940712118	24312.72142	253072.4381	123847.8994

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Medium Risk EPSS Outage Risk
(Continued)

epss_outage_risk_dollarized_third_party_balloon	epss_outage_risk_dollarized_third_party_other	epss_outage_risk_dollarized_vegetation_branch	epss_outage_risk_dollarized_vegetation_trunk	epss_outage_risk_dollarized_vegetation_other	epss_outage_risk_dollarized_other_equipment_type	epss_outage_risk_dollarized_secondary_conductor	epss_outage_risk_dollarized_capacitor_bank_equipment_cause	epss_outage_risk_dollarized_dpd_equipment_cause	epss_outage_risk_dollarized_fuse_equipment_cause	epss_outage_risk_dollarized_support_structure_equipment_cause
24884.86002	64179.39919	257664.1937	156650.5959	59347.03522	1834327.416	52068.02838	1172.329294	0	90928.71883	134183.7538

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Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Medium Risk EPSS Outage Risk
(Continued)

epss_outage_risk_dollarized_support_structure_electrical_cause	epss_outage_risk_dollarized_switch_equipment_cause	epss_outage_risk_dollarized_transformer_equipment_cause	epss_outage_risk_dollarized_transformer_equipment_leaking	epss_outage_risk_dollarized_voltage_regulator_equipment_cause	epss_outage_risk_dollarized_animal_bird	epss_outage_risk_dollarized_animal_squirrel	epss_outage_risk_dollarized_animal_other	epss_outage_risk_dollarized_third_party_vehicle
79608.38722	0	0	0	0	319526.9842	71665.56002	9959.846618	224457.0078

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Low Risk WDRM PoF

cs_name	circuit_name	primary_conductor_line_slap_cause	primary_conductor_wire_down_cause	primary_conductor_other_cause	third_party_balloon	third_party_other	vegetation_branch	vegetation_trunk	vegetation_other	other_equipment_type	secondary_conductor	capacitor_bank_equipment_cause	dpd_equipment_cause	fuse_equipment_cause	support_structure_equipment_cause	support_structure_electrical_cause	switch_equipment_cause	transformer_equipment_cause	transformer_equipment_leaking	voltage_regulator_equipment_cause	animal_bird	animal_squirrel	animal_other	third_party_vehicle
OAKLAND K 1103CR188	OAKLAND K 1103	0.012073395	0.126976759	0.045041754	0.006691049	0.02804767	0.250452	0.17324844	0.10555053	0.405085423	0.02037397	0.002776952	*null*	0.024006093	0.060422907	0.02777919	0.003858628	0.206799214	0.016831718	*null*	0.028524151	0.106077714	0.005318215	0.062522334

**The rates above reflect the expected outage count during wildfire season for that specific failure mode

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Low Risk Sustained Outage Fraction

subset_name	outage_count	sustained_outage_count	sustained_outage_fraction
vegetation_trunk	5090	5001	0.982514735
other_equipment_type	33470	22310	0.666567075
third_party_other	1356	1307	0.963864307
third_party_balloon	643	575	0.894245723
primary_conductor_other_cause	1317	1239	0.940774487
transformer_equipment_leaking	0	0	0
vegetation_other	3434	3292	0.958648806
primary_conductor_line_slap_cause	457	435	0.951859956
voltage_regulator_equipment_cause	157	111	0.707006369
primary_conductor_wire_down_cause	2836	2697	0.950987306
third_party_vehicle	3788	3494	0.922386484
animal_other	401	382	0.952618454
capacitor_bank_equipment_cause	82	53	0.646341463
support_structure_equipment_cause	1069	1036	0.969130028
support_structure_electrical_cause	1749	1684	0.962835906
animal_bird	4498	4318	0.959982214
switch_equipment_cause	0	0	0
vegetation_branch	5693	5585	0.981029334
animal_squirrel	4336	4176	0.963099631
dpd_equipment_cause	331	225	0.679758308
secondary_conductor	1591	1578	0.991829038
fuse_equipment_cause	3409	3332	0.977412731
transformer_equipment_cause	0	0	0

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Low Risk EPSS PoF

cs_name	circuit_name	prob_epss_failure_primary_conductor_line_slap_cause	prob_epss_failure_primary_conductor_wire_down_cause	prob_epss_failure_primary_conductor_other_cause	prob_epss_failure_third_party_balloon	prob_epss_failure_third_party_other	prob_epss_failure_vegetation_branch	prob_epss_failure_vegetation_trunk	prob_epss_failure_vegetation_other	prob_epss_failure_other_equipment_type	prob_epss_failure_secondary_conductor
OAKLAND K 1103CR188	OAKLAND K 1103	0.001310072	0.013778118	0.004887435	0.000726039	0.003043424	0.027176285	0.018799011	0.01145318	0.043955405	0.002210758

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Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Low Risk EPSS PoF
(Continued)

prob_epss_failure_capacitor_bank_equipment_cause	prob_epss_failure_dpd_equipment_cause	prob_epss_failure_fuse_equipment_cause	prob_epss_failure_support_structure_equipment_cause	prob_epss_failure_support_structure_electrical_cause	prob_epss_failure_switch_equipment_cause	prob_epss_failure_transformer_equipment_cause	prob_epss_failure_transformer_equipment_leaking	prob_epss_failure_voltage_regulator_equipment_cause	prob_epss_failure_animal_bird	prob_epss_failure_animal_squirrel	prob_epss_failure_animal_other
0.000301324	0	0.002604877	0.006556428	0.003014292	0	0	0	0	0.003095126	0.011510384	0.000577074

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Low Risk EPSS PoF
(Continued)

prob_epss_failure_third_party_vehicle	prob_non_epss_failure_primary_conductor_line_slap_cause	prob_non_epss_failure_primary_conductor_wire_down_cause	prob_non_epss_failure_primary_conductor_other_cause	prob_non_epss_failure_third_party_balloon	prob_non_epss_failure_third_party_other	prob_non_epss_failure_vegetation_branch	prob_non_epss_failure_vegetation_trunk	prob_non_epss_failure_vegetation_other	prob_non_epss_failure_other_equipment_type	prob_non_epss_failure_secondary_conductor	prob_non_epss_failure_capacitor_bank_equipment_cause
0.006784234	0.001247005	0.013102816	0.004597974	0.000649257	0.002933448	0.026660733	0.018470305	0.010979577	0.029299226	0.002192694	0.000194758

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Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Low Risk EPSS PoF
(Continued)

prob_non_epss_failure_dpd_equipment_cause	prob_non_epss_failure_fuse_equipment_cause	prob_non_epss_failure_support_structure_equipment_cause	prob_non_epss_failure_support_structure_electrical_cause	prob_non_epss_failure_switch_equipment_cause	prob_non_epss_failure_transformer_equipment_cause	prob_non_epss_failure_transformer_equipment_leaking	prob_non_epss_failure_voltage_regulator_equipment_cause	prob_non_epss_failure_animal_bird	prob_non_epss_failure_animal_squirrel	prob_non_epss_failure_animal_other	prob_non_epss_failure_third_party_vehicle
0	0.00254604	0.006354031	0.002902268	0	0	0	0	0.002971266	0.011085647	0.000549731	0.006257686

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Low Risk Consequence

cs_name	circuit_name	conductor_outage_expected_duration	conductor_outage_avg_customer_value_of_service	conductor_outage_mean_customers_impacted_by_EPSS	conductor_outage_mean_customers_impacted_by_non_EPSS
OAKLAND K 1103CR188	OAKLAND K 1103	250.5506132	1.217709581	668	241.9615385

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Low Risk Consequence
(Continued)

structure_outage_expected_duration	structure_outage_avg_customer_value_of_service	structure_outage_mean_customers_impacted_by_EPSS	structure_outage_mean_customers_impacted_by_non_EPSS	dollarized_consequence_with_epss_enabled_on_support_structures	dollarized_consequence_with_epss_disabled_on_support_structures
259.7215942	1.215085846	683.1538462	193.1327014	215592.4459	60949.5968

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Low Risk Consequence
(Continued)

dollarized_consequence_with_epss_enabled_on_conductors	dollarized_consequence_with_epss_disabled_on_conductors	cmi_consequence_with_epss_enabled_on_support_structures	cmi_consequence_with_epss_disabled_on_support_structures	cmi_consequence_with_epss_enabled_on_conductors	cmi_consequence_with_epss_disabled_on_conductors
203805.3853	73821.95294	177429.806	50160.73311	167367.8096	60623.61182

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Low Risk EPSS Outage Risk

cs_name	circuit_name	epss_outage_risk_dollarized	epss_outage_annual_cmi	epss_outage_likelihood	epss_outage_consequence_dollarized	epss_outage_expected_outage_count_per_wf_season	epss_outage_risk_dollarized_primary_conductor_line_slap_cause	epss_outage_risk_dollarized_primary_conductor_wire_down_cause
OAKLAND K 1103CR188	OAKLAND K 1103	23245.20562	19098.90149	40.85082951	569.0265265	0.018789004	174.9433407	1840.779264

Workpaper 016B
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Low Risk EPSS Outage Risk

(Continued)

epss_outage_risk_dollarized_primary_conductor_other_cause	epss_outage_risk_dollarized_third_party_balloon	epss_outage_risk_dollarized_third_party_other	epss_outage_risk_dollarized_vegetation_branch	epss_outage_risk_dollarized_vegetation_trunk	epss_outage_risk_dollarized_vegetation_other	epss_outage_risk_dollarized_other_equipment_type	epss_outage_risk_dollarized_secondary_conductor	epss_outage_risk_dollarized_capacitor_bank_equipment_cause	epss_outage_risk_dollarized_dpd_equipment_cause
656.6540952	100.0411995	403.7133326	3570.525902	2467.825671	1523.685871	6795.422193	288.6954891	53.09278873	0

Workpaper 016B
Pacific Gas and Electric Company
Electrical Undergrounding Program
EPSS Toy Problem Calculations
Low Risk EPSS Outage Risk

(Continued)

epss_outage_risk_dollarized_fuse_equipment_cause	epss_outage_risk_dollarized_support_structure_equipment_cause	epss_outage_risk_dollarized_support_structure_electrical_cause	epss_outage_risk_dollarized_switch_equipment_cause	epss_outage_risk_dollarized_transformer_equipment_cause	epss_outage_risk_dollarized_transformer_equipment_leaking	epss_outage_risk_dollarized_voltage_regulator_equipment_cause	epss_outage_risk_dollarized_animal_bird	epss_outage_risk_dollarized_animal_squirrel	epss_outage_risk_dollarized_animal_other	epss_outage_risk_dollarized_third_party_vehicle
406.4116296	1026.24069	472.9664128	0	0	0	0	486.1883963	1805.88619	90.90689627	1081.226255

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP017A

PSPS TOY PROBLEM

WP017A – PSPS Toy Problem

A. PSPS Risk Calculation Flow - Circuit Segment Level

Analysis for Example Circuit Segment: COARSEGOLD 21025380 (Low Risk Category)

1. Overview

This guide shows how data flows from raw PSPS customer events to final circuit segment PSPS outage risk through 4 datasets.

Attachment: The supplemental excel file, PSPS Toy Problem Calculations (Attach. B, WP017B), supports this Workpaper (Attach. B, WP017A) by providing example data that traces how raw PSPS outage event data flows through four datasets to calculate final circuit segment PSPS outage risk. Attach. B, WP017B includes examples for three circuit segments representing high, medium, and low risk levels, classified along two dimensions: the expected number of PSPS events per wildfire season (based on historical data) and the typical customer-minutes of outage per such event. Please reference the Index sheet in the supplemental excel file to identify the corresponding sheets for each risk-level example.

Note, this workpaper provides a detailed walkthrough of the low-risk example (COARSEGOLD 21025380), while the supporting excel file contains the corresponding inputs and outputs for all three risk-level examples.

PSPS Lookback Period: 7 years (2018-2024)

2. Calculation Flow:

Dataset 1: Base SPID Events (psps_spid_events)
↓ (aggregate by event + apply normalization)
Dataset 2: Event Totals (cs_risk_per_event)
↓ (apply mileage-weighted distribution)
Dataset 3: Risk Distribution (coefficients)
↓ (sum all incoming risk)
Dataset 4: Final Circuit Segment Risk (psps_cs_risk_aggregated)

B. Dataset 1: Base SPID Events (psps_spid_events)

1. What is this?

Raw customer events - each time a customer experienced a PSPS event.

One row = One customer experiencing one PSPS event.

This is a foundational dataset that demonstrates:

- Which customers were affected
- Which events they experienced
- How long they were out
- Their critical customer weighting

2. Key Columns

Column	Description
service_point_id	Unique customer identifier
wdrm_v4_cs_name	Circuit segment the customer is on
event_name	PSPS event identifier
lookback_event_date	Date of the PSPS event
total_outage_duration_hours	Hours the customer was out of power
customer_class	RES, Non-RES
critical_customer_type	Type of critical customer (TT1, Medical_Baseline, etc.)
critical_customer_weighting	Impact multiplier (1, 2, 5, or 100)

3. Example Rows

Regular Residential Customer:

service_point_id	event_name	customer_class	critical_type	weighting	outage_hours
60913878	10132018_2024Q4LB	RES	Regular Customer	1	17.5
60913878	10262019_2024Q4LB	RES	Regular Customer	1	19.5

Critical Commercial Customer:

service_point_id	event_name	customer_class	critical_type	weighting	outage_hours
1138288383	10132018_2024Q4LB	Non-RES	TT1	100	17.5
1138288383	10262019_2024Q4LB	Non-RES	TT1	100	19.5

C. Dataset 2: Event Totals (cs_risk_per_event)

1. What is this?

Each PSPS event's total impact on each circuit segment, with critical customer weights normalized.
One row = One circuit segment experiencing one PSPS event

2. Calculations

This dataset performs **THE KEY NORMALIZATION STEP** that adjusts critical customer impacts back to standard economic levels.

a. Step 1: Get Cost Per Minute (Value of Service)

IF customer_class = "RES" THEN cmi_cost = $0.08 per minute
IF customer_class = "Non-RES" THEN cmi_cost = $23.11 per minute

b. Step 2: Calculate Individual Customer Costs

For each customer in each event:

total_outage_duration_minutes = total_outage_duration_hours × 60
unweighted_cost_per_customer_event = total_outage_duration_minutes × cmi_cost
customer_cost_per_minute = cmi_cost × critical_customer_weighting
weighted_cost_per_customer_event = total_outage_duration_minutes × customer_cost_per_minute

c. Step 3: Calculate Global Normalization Factor (ONCE for all data)

This is calculated ONCE across ALL customers on ALL circuit segments in ALL events:
TOTAL_UNWEIGHTED_CUSTOMER_COST =
SUM(unweighted_cost_per_customer_event)
[across every customer, every event, every circuit segment]

TOTAL_WEIGHTED_CUSTOMER_COST = SUM(weighted_cost_per_customer_event)
[across every customer, every event, every circuit segment]
normalization_factor = TOTAL_UNWEIGHTED_CUSTOMER_COST / TOTAL_WEIGHTED_CUSTOMER_COST
Purpose: This factor adjusts critical customer impacts back down to represent actual economic cost. Without this, a single critical customer with 100× weighting would make their circuit segment appear 100× riskier than it actually is.

d. Step 4: Apply Normalization to Each Customer

customer_cost_per_event = weighted_cost_per_customer_event × normalization_factor

This is the normalized cost - it accounts for critical customer importance but doesn't artificially inflate total system risk.

e. Step 5: Aggregate by Circuit Segment and Event

For each circuit segment, for each event, sum across all customers:
cmi_of_event_on_cs = SUM(total_outage_duration_minutes)
unscaled_cost_of_event_on_cs = SUM(customer_cost_per_event)
count_spids_of_event_on_cs = COUNT(DISTINCT service_point_id)

f. Example: Event 10262019_2024Q4LB on COARSEGOLD 21025380

All 227 customers affected, each out for 19.5 hours = 1,170 minutes

1) Step 1: Individual Customer Costs

Regular RES Customer (60913878):
total_outage_duration_minutes = 19.5 × 60 = 1,170 minutes
unweighted_cost = 1,170 × $0.08 = $93.60
customer_cost_per_minute = $0.08 × 1 = $0.08
weighted_cost = 1,170 × $0.08 = $93.60

Critical Non-RES Customer (1138288383, TT1, 100× weighting):
total_outage_duration_minutes = 19.5 × 60 = 1,170 minutes
unweighted_cost = 1,170 × $23.11 = $27,038.70
customer_cost_per_minute = $23.11 × 100 = $2,311
weighted_cost = 1,170 × $2,311 = $2,703,870

2) Step 2: Global Normalization Factor

Calculated across the entire system (all circuit segments, all events, all customers):
TOTAL_UNWEIGHTED_CUSTOMER_COST = (sum of all unweighted costs across entire system)
TOTAL_WEIGHTED_CUSTOMER_COST = (sum of all weighted costs across entire system)
normalization_factor = TOTAL_UNWEIGHTED / TOTAL_WEIGHTED
**Note, this global normalization factor is currently equal to 0.0846*

3) Step 3: Apply Normalization

Regular RES Customer (60913878):
customer_cost_per_event = $93.60 × 0.08 (sample value) = $7.49

4) Step 4: Aggregate by Event

For Event 10262019_2024Q4LB on COARSEGOLD 21025380:
cmi_of_event_on_cs = 227 customers × 1,170 minutes = 265,590 minutes
unscaled_cost_of_event_on_cs = Sum of all 227 customer_cost_per_event values = $691,934
count_spids_of_event_on_cs = 227

3. **Result for Both Events:**

wdrm_v4_cs_name	event_name	event_date	count_customers	total_cmi	total_cost
COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	227	265,590	$691,934
COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	227	238,350	$620,966

Interpretation:

- Event 10262019 had the highest economic impact: $691,934
- This represents the normalized cost after adjusting for critical customer weights
- Average impact per customer: $691,934 / 227 = $3,048

4. Dataset 3: Risk Distribution (coefficients)

a. What is this?

How risk flows between circuit segments using mileage-weighted coefficients.
One row = One directional risk flow between two circuit segments in one event

b. Key Concept

When a circuit segment has risk, it's redistributed among electrical ancestors based on their HFTD/HFRA miles within the event polygon. This represents the "circuit-experienced" risk - the actual risk a segment faces considering upstream electrical dependencies.

c. Calculations

1) Step 1: Identify Ancestors

For each circuit segment, identify its electrical ancestors (upstream segments in the electrical path).

COARSEGOLD 21025380 has ancestors including:

- COARSEGOLD 21025380 (itself)
- COARSEGOLD 2102CB (upstream parent)
- COARSEGOLD 210210330 (upstream parent)
- Other upstream segments.

2) Step 2: Identify Segments in Event Polygon

For each event, identify which circuit segments have HFTD/HFRA miles within the event's geographic polygon.

Event 10262019_2024Q4LB polygon includes:

- COARSEGOLD 21025380: 14.00 miles in HFTD/HFRA
- COARSEGOLD 2102383092: 0.32 miles in HFTD/HFRA
- COARSEGOLD 210210330: 9.76 miles in HFTD/HFRA
- COARSEGOLD 2102CB: 14.04 miles in HFTD/HFRA
- Total = 38.13 miles

3) Step 3: Calculate Mileage-Weighted Coefficient

For each ancestor that appears in the event polygon:
miles_weighted_coefficient = segment_HFTD_HFRA_miles / total_ancestor_miles_in_event

For Event 10262019_2024Q4LB (COARSEGOLD 21025380's ancestors in polygon):

- COARSEGOLD 21025380: 14.00 / 38.13 = **0.3673** (36.73%)
- COARSEGOLD 2102383092: 0.32 / 38.13 = **0.0084** (0.84%)
- COARSEGOLD 210210330: 9.76 / 38.13 = **0.2561** (25.61%)
- COARSEGOLD 2102CB: 14.04 / 38.13 = **0.3683** (36.83%)
- Sum = 1.0000 ✓

Interpretation: The coefficients sum to 1.0, meaning 100% of the risk from COARSEGOLD 21025380 is distributed among these four ancestors based on their relative HFTD/HFRA exposure.

4) Step 4: Distribute Event Risk

Take the event's total cost from Dataset 2 and distribute it according to coefficients:
cs_risk_by_coefficient = unscaled_cost_of_event_on_cs × miles_weighted_coefficient

cs_CMI_by_coefficient = cmi_of_event_on_cs × miles_weighted_coefficient
From Dataset 2: Event 10262019_2024Q4LB on COARSEGOLD 21025380:

- Total cost: $691,934
- Total CMI: 265,590 minutes

Risk Distribution:

- COARSEGOLD 21025380 receives: $691,934 × 0.3673 = $254,117
- COARSEGOLD 2102383092 receives: $691,934 × 0.0084 = $5,831
- COARSEGOLD 210210330 receives: $691,934 × 0.2561 = $177,173
- COARSEGOLD 2102CB receives: $691,934 × 0.3683 = $254,813
- Total = $691,934 ✓

CMI Distribution:

- COARSEGOLD 21025380 receives: 265,590 × 0.3673 = 97,538 minutes
- COARSEGOLD 2102383092 receives: 265,590 × 0.0084 = 2,231 minutes
- COARSEGOLD 210210330 receives: 265,590 × 0.2561 = 68,014 minutes
- COARSEGOLD 2102CB receives: 265,590 × 0.3683 = 97,807 minutes
- Total = 265,590 ✓

d. Understanding Direction: FROM_THIS_CS vs TO_THIS_CS

The coefficients dataset shows bidirectional risk flows:

FROM_THIS_CS: Risk that originates from the selected circuit segment and flows to ancestors

- Shows how the selected segment's customer impacts get distributed upstream
- The "related_cs" column shows which ancestors receive the risk

TO_THIS_CS: Risk that flows into the selected circuit segment from other segments

- Shows how other segments (including itself and downstream segments) contribute risk
- The "related_cs" column shows which segments are sending risk

Key Insight: A circuit segment can receive risk from:

1. Itself (if it was in the event polygon)
2. Downstream segments (segments that are electrically downstream but within the same event polygon)

e. Example: FROM_THIS_CS (Self-Distribution)

Event 10262019_2024Q4LB: COARSEGOLD 21025380 → COARSEGOLD 21025380 (to itself)
The segment keeps a portion of its own risk based on its coefficient.

selected_cs	related_cs	event	direction	segment_miles	total_miles	coefficient	distributed_risk	distributed_cmi
COARSEGOLD 21025380	COARSEGOLD 21025380	10262019_2024Q4LB	FROM_THIS_CS	14.00	38.13	0.3673	$254,117	97,538

f. Example: FROM_THIS_CS (Full Distribution to Single Ancestor)

Event 10132018_2024Q4LB: COARSEGOLD 21025380 → COARSEGOLD 2102CB
In this event, only COARSEGOLD 2102CB was in the event polygon (not COARSEGOLD 21025380 itself).

From Dataset 2: Event 10132018_2024Q4LB on COARSEGOLD 21025380:

- Total cost: $620,966
- Total CMI: 238,350 minutes

selected_cs	related_cs	event	direction	segment_miles	total_miles	coefficient	distributed_risk	distributed_cmi
COARSEGOLD 21025380	COARSEGOLD 2102CB	10132018_2024Q4LB	FROM_THIS_CS	7.00	7.00	1.0	$620,966	238,350

Key Insight: In this event, COARSEGOLD 21025380 was NOT in the event polygon, only COARSEGOLD 2102CB was. Therefore, 100% of COARSEGOLD 21025380's customer impacts flow to that single ancestor.

g. Example: TO_THIS_CS (Incoming Risk from Self)

Event 10262019_2024Q4LB: COARSEGOLD 21025380 → COARSEGOLD 21025380 (receiving its own risk)

selected_cs	related_cs	event	direction	segment_miles	total_miles	coefficient	distributed_risk	distributed_cmi
COARSEGOLD 21025380	COARSEGOLD 21025380	10262019_2024Q4LB	TO_THIS_CS	14.00	38.13	0.3673	$254,117	97,538

Same values as FROM_THIS_CS: When a segment distributes risk to itself, it appears in both FROM and TO directions with the same values.

h. Example: TO_THIS_CS (Incoming Risk from Downstream Segment)

Event 10262019_2024Q4LB: COARSEGOLD 210210610 → COARSEGOLD 21025380

COARSEGOLD 210210610 is a downstream segment that also had customers affected in this event. Its risk gets distributed to ancestors, including COARSEGOLD 21025380.

COARSEGOLD 21025380's miles in event polygon: 14.00 miles
Total ancestor miles for COARSEGOLD 210210610 in this event: 39.58 miles
Coefficient = 14.00 / 39.58 = 0.3539 (35.39%)

Risk received from COARSEGOLD 210210610: $68,812
COARSEGOLD 21025380 receives: $68,812 × 0.3539 = $24,350

selected_cs	related_cs	event	direction	segment_miles	total_miles	coefficient	distributed_risk	distributed_cmi
COARSEGOLD 21025380	COARSEGOLD 210210610	10262019_2024Q4LB	TO_THIS_CS	14.00	39.58	0.3539	$24,350	11,415

Interpretation: Of all the risk generated by customers on COARSEGOLD 210210610, 35.39% flows to COARSEGOLD 21025380 because COARSEGOLD 21025380 represents 35.39% of the HFTD/HFRA miles among COARSEGOLD 210210610's ancestors within this event polygon.

5. Dataset 4: Final Circuit Segment Risk (psps_cs_risk_aggregated)

a. What is this?

The total annual circuit-experienced risk for each circuit segment after all mileage-weighted distributions.

One row = One circuit segment

b. Calculations

1) Sum All Incoming Risk

From Dataset 3, for each circuit segment, sum only the TO_THIS_CS rows across all events:
total_risk_across_all_events = SUM(cs_risk_by_coefficient WHERE direction = 'TO_THIS_CS')
total_cmi_across_all_events = SUM(cs_CMI_by_coefficient WHERE direction = 'TO_THIS_CS')

2) Annualize

annual_psps_risk_unscaled = total_risk_across_all_events / 7 years
annual_psps_CMI = total_cmi_across_all_events / 7 years

Why only TO_THIS_CS?

- FROM_THIS_CS shows risk flowing OUT to other segments
- TO_THIS_CS shows risk flowing IN to this segment
- Final circuit-experienced risk = total incoming risk only

c. Example: COARSEGOLD 21025380

From Dataset 3, TO_THIS_CS rows:

1) Event 10262019_2024Q4LB:

1. From COARSEGOLD 21025380 (self):
    a. Risk: $36,302 * 7 = 254,117
    b. CMI: 13,934 * 7 = 97,539 customer-minutes
2. From COARSEGOLD 210210610 (downstream):
    a. Risk: $24,350 × 7 = $170,450
    b. CMI: 11,415 × 7 = 79,905 customer-minutes
3. From COARSEGOLD 21025722 (downstream):
    a. Risk: $11,693 × 7 = $81,851
    b. CMI: 3,811 × 7 = 26,677 customer-minutes

Note: Dataset 3 shows annualized values.

2) Sum Across All Events:

COARSEGOLD 21025380 only receives risk from 1 event (10262019_2024Q4LB):
total_risk_all_events = $254,117 + $170,450 + $81,851 = $506,418
total_cmi_all_events = 97,538 + 79,905 + 26,677 = 204,120 minutes

3) Annualize:
annual_psps_risk_unscaled = $506,418 / 7 = $72,345
annual_psps_CMI = 204,120 / 7 = 29,160 customer-minutes

Result:

wdrm_v4_cs_name	annual_psps_risk_unscaled	annual_psps_CMI
COARSEGOLD 21025380	$72,345	29,160

Interpretation:

- This circuit segment experiences $72,345 in annual PSPS risk
- This includes:
  - Risk from its own customers ($36,302 annual)
  - Risk flowing in from downstream segment COARSEGOLD 210210610 ($24,350 annual)
  - Risk flowing in from downstream segment COARSEGOLD 21025722 ($11,693 annual)
- Total circuit-experienced impact: 29,160 customer-minutes per year

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP017B

PSPS TOY PROBLEM CALCULATIONS

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
Dataset Index

Background
This supplemental excel file supports Workpaper PSPS Toy Problem (Attach. B, WP017A) by providing example data that traces how raw PSPS customer events flow through four datasets to calculate final circuit segment PSPS outage risk. This file includes examples for three circuit segments representing high, medium, and low risk levels.

Worksheet	**Word Doc Reference**	**Data Set Name**
1-high_risk_psps_spid_events	Dataset 1	Base SPID Events
2-high_risk_cs_risk_per_event	Dataset 2	Event Totals
3-high_risk_coefficients	Dataset 3	Risk Distribution
4-high_risk_psps_cs_risk_agg	Dataset 4	Final Circuit Segment Risk
1-medium_risk_psps_spid_events	Dataset 1	Base SPID Events
2-medium_risk_cs_risk_per_event	Dataset 2	Event Totals
3-medium_risk_coefficients	Dataset 3	Risk Distribution
4-medium_risk_psps_cs_risk_agg	Dataset 4	Final Circuit Segment Risk
1-low_risk_psps_spid_events	Dataset 1	Base SPID Events
2-low_risk_cs_risk_per_event	Dataset 2	Event Totals
3-low_risk_coefficients	Dataset 3	Risk Distribution
4-low_risk_psps_cs_risk_agg	Dataset 4	Final Circuit Segment Risk

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
131268446	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
131268446	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
131268446	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
131268446	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
131268446	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
131268446	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
131268446	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
131268446	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
131268446	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
131268446	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
131268446	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
584993467	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
584993467	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
584993467	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
584993467	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
584993467	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
584993467	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
584993467	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
584993467	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
584993467	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
584993467	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
584993467	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
797186827	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
797186827	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
797186827	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
797186827	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
797186827	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
797186827	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
797186827	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
797186827	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
797186827	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
797186827	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
797186827	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
1373677279	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
1373677279	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
1373677279	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
1373677279	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
1373677279	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
1373677279	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
1373677279	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
1373677279	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
1373677279	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1373677279	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
1373677279	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
1555720443	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	SC2	2
1555720443	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	SC2	2
1555720443	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	SC2	2
1555720443	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	SC2	2
1555720443	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	SC2	2
1555720443	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	SC2	2
1555720443	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	SC2	2
1555720443	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	SC2	2
1555720443	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	SC2	2
1555720443	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	SC2	2
1555720443	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	SC2	2
1696750307	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
1696750307	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
1696750307	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
1696750307	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
1696750307	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
1696750307	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
1696750307	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
1696750307	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
1696750307	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1696750307	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
1696750307	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
1853924215	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
1853924215	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
1853924215	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
1853924215	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
1853924215	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
1853924215	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
1853924215	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1853924215	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
1853924215	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1853924215	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
1853924215	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
1950976914	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
1950976914	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
1950976914	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
1950976914	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
1950976914	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
1950976914	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
1950976914	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
1950976914	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
1950976914	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1950976914	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
1950976914	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
2159019934	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
2159019934	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
2159019934	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
2159019934	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
2159019934	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
2159019934	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
2159019934	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
2159019934	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
2159019934	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
2159019934	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
2159019934	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
2185599393	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
2185599393	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
2185599393	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
2185599393	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
2185599393	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
2185599393	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
2185599393	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
2185599393	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
2185599393	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
2185599393	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
2185599393	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
2222232225	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
2222232225	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
2222232225	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
2222232225	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
2222232225	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
2222232225	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
2222232225	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
2222232225	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
2222232225	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
2222232225	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
2222232225	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
2388677680	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
2388677680	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
2388677680	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
2388677680	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
2388677680	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
2388677680	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
2388677680	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
2388677680	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
2388677680	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
2388677680	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
2388677680	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
2451618494	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
2451618494	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
2451618494	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
2451618494	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
2451618494	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
2451618494	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
2451618494	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
2451618494	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
2451618494	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
2451618494	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
2451618494	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
2479246848	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
2479246848	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
2479246848	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
2479246848	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
2479246848	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
2479246848	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
2479246848	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
2479246848	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
2479246848	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
2479246848	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
2479246848	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
2579244879	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
2579244879	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
2579244879	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
2579244879	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
2579244879	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
2579244879	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
2579244879	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
2579244879	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
2579244879	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
2579244879	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
2579244879	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
2690553496	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
2690553496	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
2690553496	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
2690553496	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
2690553496	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
2690553496	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
2690553496	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
2690553496	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
2690553496	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
2690553496	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
2690553496	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
3153128853	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
3153128853	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
3153128853	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
3153128853	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
3153128853	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
3153128853	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
3153128853	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
3153128853	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
3153128853	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
3153128853	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
3153128853	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
3413467536	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
3413467536	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
3413467536	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
3413467536	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
3413467536	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
3413467536	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
3413467536	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
3413467536	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
3413467536	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
3413467536	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
3413467536	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
3416245825	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
3416245825	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
3416245825	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
3416245825	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
3416245825	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
3416245825	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
3416245825	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
3416245825	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
3416245825	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
3416245825	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
3416245825	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
3423665990	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
3423665990	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
3423665990	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
3423665990	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
3423665990	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
3423665990	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
3423665990	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
3423665990	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
3423665990	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
3423665990	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
3423665990	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
3444700603	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
3444700603	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
3444700603	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
3444700603	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
3444700603	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
3444700603	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
3444700603	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
3444700603	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
3444700603	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
3444700603	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
3444700603	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
3580020854	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
3580020854	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
3580020854	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
3580020854	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
3580020854	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
3580020854	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
3580020854	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
3580020854	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
3580020854	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
3580020854	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
3580020854	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
3625262649	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
3625262649	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
3625262649	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
3625262649	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
3625262649	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
3625262649	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
3625262649	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
3625262649	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
3625262649	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
3625262649	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
3625262649	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
3668611707	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
3668611707	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
3668611707	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
3668611707	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
3668611707	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
3668611707	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
3668611707	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
3668611707	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
3668611707	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
3668611707	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
3668611707	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4100811605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	TT1	100
4100811605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	TT1	100
4100811605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	TT1	100
4100811605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	TT1	100
4100811605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	TT1	100
4100811605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	TT1	100
4100811605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	TT1	100
4100811605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	TT1	100
4100811605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT1	100
4100811605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	TT1	100
4100811605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	TT1	100
4204184205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204184205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204184205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204184205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204184205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204184205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204184205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204184205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204184205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204184205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204184205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204185310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204185310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204185310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204185310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204185310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204185310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204185310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204185310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204185310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204185310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204185310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4204186310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204186310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204186310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204186310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204186310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204186310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204186310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204186310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204186310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204186310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204186310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204187410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204187410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204187410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204187410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204187410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204187410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204187410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204187410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204187410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204187410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204187410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204188410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204188410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204188410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204188410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204188410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204188410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204188410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204188410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204188410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204188410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204188410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204189510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204189510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204189510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204189510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204189510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204189510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204189510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204189510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204189510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204189510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204189510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204190510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204190510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204190510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204190510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204190510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204190510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204190510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204190510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204190510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204190510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204190510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204191510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204191510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204191510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204191510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204191510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204191510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204191510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204191510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204191510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204191510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204191510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204192610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204192610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204192610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204192610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204192610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204192610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204192610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204192610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204192610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204192610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204192610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204193610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204193610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4204193610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204193610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4204193610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4204193610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204193610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204193610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4204193610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4204193610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204193610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204194710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204194710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204194710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204194710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204194710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204194710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204194710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204194710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204194710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204194710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204194710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204195710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204195710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204195710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204195710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204195710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204195710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204195710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204195710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204195710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204195710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204195710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204196810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204196810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4204196810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204196810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204196810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204196810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204196810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204196810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204196810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204196810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204196810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204197810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204197810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204197810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204197810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204197810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204197810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204197810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204197810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204197810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204197810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204197810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204198810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204198810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204198810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204198810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204198810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204198810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204198810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204198810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204198810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204198810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204198810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204199910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204199910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204199910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204199910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204199910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204199910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204199910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204199910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204199910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204199910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204199910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204200910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4204200910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4204200910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4204200910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4204200910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4204200910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4204200910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4204200910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4204200910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4204200910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4204200910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4204202008	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4204202008	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4204202008	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4204202008	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4204202008	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4204202008	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4204202008	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4204202008	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4204202008	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4204202008	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4204202008	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4204203010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204203010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204203010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204203010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204203010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204203010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204203010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204203010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204203010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204203010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204203010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204204110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4204204110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4204204110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4204204110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4204204110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4204204110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4204204110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4204204110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4204204110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4204204110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4204204110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4204205110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204205110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204205110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204205110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204205110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204205110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204205110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204205110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204205110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204205110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204205110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204206110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204206110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204206110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204206110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204206110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204206110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204206110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204206110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204206110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204206110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204206110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204207210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4204207210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4204207210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4204207210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4204207210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4204207210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4204207210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4204207210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4204207210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4204207210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4204207210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4204208210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204208210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204208210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204208210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204208210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204208210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204208210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204208210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204208210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204208210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204208210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204209310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4204209310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4204209310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4204209310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4204209310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4204209310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4204209310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4204209310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4204209310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4204209310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4204209310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4204210310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204210310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204210310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204210310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204210310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204210310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204210310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204210310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204210310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204210310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204210310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204211410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204211410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204211410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204211410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204211410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204211410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204211410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204211410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204211410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204211410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204211410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204212410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204212410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204212410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204212410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204212410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204212410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204212410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204212410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204212410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204212410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204212410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204213410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204213410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204213410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204213410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204213410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204213410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204213410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204213410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204213410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204213410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204213410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204214510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204214510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204214510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204214510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204214510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204214510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204214510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204214510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204214510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204214510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204214510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204215510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204215510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204215510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204215510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204215510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204215510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204215510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204215510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204215510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204215510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204215510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204216610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204216610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204216610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204216610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204216610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204216610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204216610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204216610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204216610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204216610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204216610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204217610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204217610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204217610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204217610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204217610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204217610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4204217610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204217610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204217610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204217610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204217610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204218710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4204218710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4204218710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4204218710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4204218710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4204218710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4204218710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4204218710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4204218710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4204218710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4204218710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4204219705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204219705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204219705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204219705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204219705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204219705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204219705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204219705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204219705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204219705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204219705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204220710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4204220710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4204220710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4204220710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4204220710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4204220710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4204220710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4204220710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4204220710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4204220710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4204220710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4204221810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support_Low_Income	5
4204221810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support_Low_Income	5
4204221810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support_Low_Income	5
4204221810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support_Low_Income	5
4204221810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support_Low_Income	5
4204221810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support_Low_Income	5
4204221810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support_Low_Income	5
4204221810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support_Low_Income	5
4204221810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
4204221810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support_Low_Income	5
4204221810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support_Low_Income	5
4204222810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204222810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204222810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204222810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204222810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204222810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204222810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204222810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204222810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204222810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204222810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204223910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204223910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204223910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204223910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204223910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204223910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204223910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204223910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204223910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204223910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204223910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204224910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4204224910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4204224910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4204224910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4204224910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4204224910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4204224910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4204224910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4204224910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4204224910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4204224910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4204226010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204226010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204226010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204226010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204226010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204226010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204226010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204226010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204226010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204226010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204226010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204227010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4204227010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4204227010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4204227010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4204227010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4204227010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4204227010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4204227010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4204227010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4204227010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4204227010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4204228010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204228010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204228010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204228010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204228010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204228010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204228010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204228010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4204228010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204228010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204228010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204229105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204229105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204229105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204229105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204229105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204229105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204229105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204229105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204229105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204229105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204229105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204230110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204230110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204230110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204230110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204230110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204230110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204230110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204230110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204230110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204230110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204230110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204231210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204231210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Medical_Baseline	2
4204231210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204231210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Medical_Baseline	2
4204231210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Medical_Baseline	2
4204231210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Medical_Baseline	2
4204231210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204231210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Medical_Baseline	2
4204231210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline	2
4204231210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Medical_Baseline	2
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4204232210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204232210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204232210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204232210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204232210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204232210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204232210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204232210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204232210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204232210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204232210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204233305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204233305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204233305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204233305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204233305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204233305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204233305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204233305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204233305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204233305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
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4204234305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204234305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
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4204234305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204234305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204234305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204234305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204234305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204234305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204234305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204234305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204235305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204235305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204235305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204235305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204235305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204235305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204235305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204235305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204235305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204235305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204235305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204236410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204236410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204236410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204236410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204236410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204236410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204236410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204236410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204236410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204236410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204236410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204237405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204237405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204237405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204237405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204237405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204237405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204237405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204237405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204237405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204237405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204237405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204238505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4204238505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4204238505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4204238505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4204238505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4204238505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4204238505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4204238505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4204238505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4204238505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4204238505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4204239505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204239505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204239505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204239505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204239505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204239505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204239505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204239505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204239505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204239505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204239505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204240605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204240605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204240605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204240605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204240605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204240605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204240605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204240605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204240605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204240605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204240605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204241605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204241605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204241605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
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4204241605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
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4204241605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204241605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
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4204241605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204241605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204242605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204242605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204242605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204242605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204242605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
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4204242605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204242605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204242605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204242605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204242605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204243705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204243705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
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4204243705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204243705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204243705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
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4204243705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
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4204243705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
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4204244705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204244705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204244705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204244705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204244705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204244705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204244705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
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4204244705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
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4204245805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
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4204245805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204245805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
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4204245805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204245805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204245805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204245805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204246805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204246805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204246805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204246805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204246805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204246805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204246805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204246805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204246805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204246805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204246805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204247905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204247905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204247905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204247905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204247905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204247905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204247905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204247905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204247905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204247905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204247905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204248905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4204248905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4204248905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4204248905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4204248905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4204248905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4204248905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4204248905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4204248905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4204248905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4204248905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4204249905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4204249905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204249905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204249905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204249905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204249905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204249905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204249905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204249905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204249905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204249905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204251005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204251005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204251005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204251005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204251005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204251005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204251005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204251005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204251005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204251005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204251005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204252005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4204252005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204252005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4204252005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204252005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204252005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4204252005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4204252005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204252005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204252005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4204252005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4204253105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4204253105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4204253105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4204253105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4204253105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4204253105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4204253105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4204253105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4204253105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4204253105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4204253105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4204254105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204254105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204254105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204254105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204254105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204254105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204254105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204254105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204254105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204254105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204254105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204255222	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4204255222	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4204255222	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4204255222	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4204255222	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4204255222	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4204255222	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4204255222	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4204255222	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4204255222	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4204255222	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4204256205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204256205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204256205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204256205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204256205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204256205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204256205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204256205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204256205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204256205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204256205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204257205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204257205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204257205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204257205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204257205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204257205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204257205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204257205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204257205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204257205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204257205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204258305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204258305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204258305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204258305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204258305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204258305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204258305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204258305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204258305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204258305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204258305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204259305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4204259305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4204259305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4204259305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4204259305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4204259305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4204259305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4204259305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4204259305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4204259305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4204259305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4204260405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204260405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204260405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4204260405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204260405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204260405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204260405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204260405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204260405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204260405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204260405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204261405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204261405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204261405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204261405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204261405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204261405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204261405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204261405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204261405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204261405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204261405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204262505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204262505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204262505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204262505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204262505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204262505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204262505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204262505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204262505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204262505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204262505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204263510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204263510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204263510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204263510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204263510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204263510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204263510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204263510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204263510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204263510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204263510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204264510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204264510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204264510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204264510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204264510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204264510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204264510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204264510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204264510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204264510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204264510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204265610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4204265610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204265610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4204265610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204265610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204265610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4204265610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4204265610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204265610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204265610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4204265610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4204266610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204266610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204266610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204266610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204266610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204266610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204266610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204266610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204266610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204266610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204266610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204267710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support_Low_Income	5
4204267710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support_Low_Income	5
4204267710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support_Low_Income	5
4204267710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support_Low_Income	5
4204267710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support_Low_Income	5
4204267710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support_Low_Income	5
4204267710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support_Low_Income	5
4204267710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support_Low_Income	5
4204267710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
4204267710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support_Low_Income	5
4204267710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support_Low_Income	5
4204268710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204268710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204268710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204268710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204268710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204268710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204268710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204268710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204268710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204268710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204268710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204269810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204269810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204269810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204269810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204269810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204269810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204269810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204269810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204269810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204269810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204269810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204270810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204270810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204270810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204270810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204270810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4204270810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204270810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204270810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204270810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204270810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204270810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204271810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204271810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204271810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204271810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204271810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204271810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204271810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204271810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204271810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204271810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204271810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4204272910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4204272910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4204272910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4204272910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4204272910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4204272910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4204272910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4204272910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4204272910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4204272910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4204272910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4204273910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4204273910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4204273910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4204273910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4204273910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4204273910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4204273910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4204273910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4204273910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4204273910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4204273910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214411110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214411110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214411110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214411110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214411110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214411110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214411110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214411110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214411110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214411110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214411110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214412110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214412110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214412110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214412110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214412110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214412110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214412110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214412110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214412110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214412110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214412110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214413205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214413205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214413205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214413205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214413205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214413205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214413205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214413205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214413205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214413205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214413205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214414210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214414210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214414210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214414210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214414210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214414210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214414210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214414210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214414210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214414210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214414210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214415210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214415210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214415210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214415210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214415210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214415210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214415210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214415210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214415210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214415210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214415210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214416310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214416310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214416310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214416310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214416310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214416310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214416310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214416310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214416310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214416310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214416310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214417310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214417310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214417310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214417310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214417310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214417310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214417310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214417310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214417310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214417310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214417310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214418410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214418410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214418410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214418410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214418410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214418410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214418410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214418410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214418410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214418410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214418410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214419410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214419410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214419410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214419410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214419410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214419410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214419410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214419410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214419410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214419410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214419410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214420510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214420510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214420510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214420510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214420510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214420510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214420510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214420510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214420510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214420510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214420510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214421510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214421510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214421510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214421510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214421510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214421510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214421510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214421510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214421510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214421510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214421510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214422563	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4214422563	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4214422563	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4214422563	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4214422563	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4214422563	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4214422563	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4214422563	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4214422563	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4214422563	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4214422563	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4214423610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214423610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214423610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214423610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214423610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214423610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214423610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214423610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214423610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214423610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214423610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214424610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214424610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214424610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214424610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214424610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214424610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214424610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214424610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214424610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214424610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214424610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214425710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214425710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214425710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214425710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214425710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214425710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214425710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214425710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214425710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214425710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214425710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214426710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214426710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214426710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214426710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214426710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214426710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214426710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214426710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214426710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214426710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214426710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214427810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214427810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214427810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214427810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214427810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214427810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214427810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214427810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214427810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214427810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214427810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214428810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214428810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214428810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214428810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214428810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214428810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214428810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214428810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214428810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214428810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214428810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214429810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214429810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214429810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214429810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214429810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214429810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214429810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214429810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214429810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214429810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214429810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214430910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214430910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214430910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214430910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214430910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214430910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214430910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214430910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214430910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214430910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214430910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214431910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214431910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214431910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214431910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214431910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214431910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214431910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214431910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214431910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214431910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214431910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214433010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214433010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214433010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214433010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214433010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214433010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214433010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214433010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214433010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214433010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214433010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214434010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214434010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214434010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214434010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214434010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214434010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214434010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214434010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214434010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214434010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214434010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214435110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214435110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214435110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214435110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214435110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214435110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214435110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214435110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214435110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214435110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214435110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214436110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214436110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214436110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214436110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214436110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214436110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214436110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214436110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214436110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214436110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214436110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214437210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214437210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4214437210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214437210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4214437210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4214437210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214437210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214437210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4214437210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4214437210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214437210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214438210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214438210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214438210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214438210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214438210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214438210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214438210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214438210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214438210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214438210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214438210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214439210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214439210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214439210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214439210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214439210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214439210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214439210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214439210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214439210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214439210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214439210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214440310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214440310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214440310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214440310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214440310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214440310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214440310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214440310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214440310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214440310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214440310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214441310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214441310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214441310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214441310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214441310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214441310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214441310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214441310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214441310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214441310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214441310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214442410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214442410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214442410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214442410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214442410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214442410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214442410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214442410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214442410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214442410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214442410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214443410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214443410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214443410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214443410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214443410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214443410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214443410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214443410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214443410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214443410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214443410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214444510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214444510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214444510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214444510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214444510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214444510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214444510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214444510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214444510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214444510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214444510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214445510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214445510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214445510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214445510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214445510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214445510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214445510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214445510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214445510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214445510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214445510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214446510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214446510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214446510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214446510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214446510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214446510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214446510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214446510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214446510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214446510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214446510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214447610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214447610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214447610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214447610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214447610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214447610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214447610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214447610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214447610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214447610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214447610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214448671	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4214448671	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4214448671	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4214448671	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4214448671	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4214448671	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4214448671	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4214448671	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4214448671	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4214448671	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4214448671	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4214449705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214449705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214449705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214449705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214449705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214449705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214449705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214449705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214449705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214449705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214449705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214450705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214450705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214450705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214450705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214450705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214450705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214450705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214450705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214450705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214450705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214450705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214451805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214451805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214451805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214451805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214451805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214451805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214451805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214451805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214451805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214451805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214451805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214452805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214452805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214452805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214452805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214452805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214452805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214452805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214452805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214452805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214452805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214452805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214453805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214453805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214453805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214453805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214453805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214453805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214453805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214453805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214453805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214453805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214453805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214454905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214454905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214454905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214454905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214454905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214454905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214454905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214454905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214454905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214454905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214454905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214455905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214455905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214455905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214455905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214455905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214455905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214455905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214455905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214455905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214455905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214455905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214457005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4214457005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4214457005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4214457005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4214457005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4214457005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4214457005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4214457005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4214457005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4214457005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4214457005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4214458005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214458005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214458005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214458005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214458005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214458005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214458005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214458005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214458005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214458005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214458005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214459105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214459105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214459105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214459105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214459105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214459105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214459105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214459105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214459105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214459105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214459105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214460105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214460105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214460105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214460105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214460105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214460105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214460105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214460105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214460105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214460105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214460105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214461105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214461105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214461105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214461105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214461105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214461105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214461105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214461105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214461105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214461105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214461105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214462205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214462205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214462205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214462205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214462205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214462205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214462205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214462205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214462205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214462205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214462205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214463205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214463205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214463205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214463205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214463205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214463205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214463205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214463205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214463205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214463205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214463205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214464305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214464305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214464305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214464305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214464305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214464305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214464305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214464305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214464305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214464305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214464305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214465305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214465305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214465305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214465305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214465305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214465305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214465305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214465305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214465305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214465305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214465305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214466405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214466405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214466405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214466405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214466405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214466405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214466405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214466405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214466405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214466405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214466405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214467405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214467405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214467405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214467405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214467405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214467405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214467405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214467405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214467405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214467405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214467405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214468405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214468405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214468405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214468405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214468405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214468405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214468405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214468405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214468405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214468405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214468405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214469505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214469505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214469505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214469505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214469505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214469505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214469505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214469505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214469505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214469505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214469505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214470505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214470505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214470505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214470505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214470505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214470505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214470505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214470505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214470505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214470505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214470505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214471605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214471605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214471605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214471605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214471605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214471605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214471605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214471605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214471605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214471605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214471605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214472605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214472605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214472605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214472605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214472605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214472605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214472605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214472605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214472605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214472605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214472605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214473705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214473705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214473705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214473705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214473705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214473705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214473705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214473705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214473705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214473705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214473705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214474710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4214474710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4214474710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4214474710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4214474710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4214474710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4214474710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4214474710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4214474710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4214474710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4214474710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4214475710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214475710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214475710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214475710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214475710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214475710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214475710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214475710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214475710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214475710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214475710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214476810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214476810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214476810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214476810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214476810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214476810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214476810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214476810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214476810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214476810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214476810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214477810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214477810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214477810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214477810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214477810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214477810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214477810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214477810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214477810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214477810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214477810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214478910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214478910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214478910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214478910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214478910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214478910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214478910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214478910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214478910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214478910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214478910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214479910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214479910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214479910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214479910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214479910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214479910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214479910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214479910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214479910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214479910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214479910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214481010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214481010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214481010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214481010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214481010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214481010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214481010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214481010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214481010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214481010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214481010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214482010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214482010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214482010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214482010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214482010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214482010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214482010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214482010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214482010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214482010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214482010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214483010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214483010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214483010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214483010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214483010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214483010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214483010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214483010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214483010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214483010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214483010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214484110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214484110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214484110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214484110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214484110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214484110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214484110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214484110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214484110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214484110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214484110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214485110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214485110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214485110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214485110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214485110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214485110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214485110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214485110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214485110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214485110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214485110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214486205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214486205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214486205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214486205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214486205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214486205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214486205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214486205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214486205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214486205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214486205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214487210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214487210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214487210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214487210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214487210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214487210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214487210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214487210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214487210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214487210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214487210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214488310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214488310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214488310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214488310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214488310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214488310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214488310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214488310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214488310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214488310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214488310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214489310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214489310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214489310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214489310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214489310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214489310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214489310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214489310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214489310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214489310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214489310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214490305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Medical_Baseline	2
4214490305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Medical_Baseline	2
4214490305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Medical_Baseline	2
4214490305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Medical_Baseline	2
4214490305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Medical_Baseline	2
4214490305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Medical_Baseline	2
4214490305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Medical_Baseline	2
4214490305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Medical_Baseline	2
4214490305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline	2
4214490305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Medical_Baseline	2
4214490305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Medical_Baseline	2
4214491410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214491410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214491410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214491410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214491410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214491410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214491410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214491410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214491410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214491410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214491410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214492410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214492410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214492410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214492410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214492410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214492410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214492410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214492410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214492410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214492410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214492410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214493505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214493505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214493505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214493505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214493505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214493505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214493505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214493505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214493505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214493505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214493505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214494510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214494510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214494510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214494510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214494510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214494510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214494510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214494510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214494510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214494510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214494510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214495610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214495610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214495610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214495610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214495610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214495610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214495610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214495610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214495610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214495610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214495610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214496610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214496610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214496610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214496610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214496610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214496610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214496610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214496610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214496610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214496610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214496610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214497610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214497610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214497610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214497610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214497610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214497610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214497610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214497610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214497610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214497610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214497610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214498710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214498710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214498710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214498710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214498710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214498710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214498710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214498710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214498710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214498710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214498710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214499705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214499705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214499705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214499705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214499705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214499705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214499705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214499705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214499705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214499705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214499705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214500821	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4214500821	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4214500821	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4214500821	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4214500821	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4214500821	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4214500821	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4214500821	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4214500821	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4214500821	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4214500821	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4214501810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214501810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214501810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214501810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214501810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214501810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214501810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214501810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214501810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214501810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214501810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214502905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214502905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214502905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214502905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214502905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214502905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214502905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214502905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214502905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214502905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214502905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214503910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214503910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214503910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214503910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214503910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214503910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214503910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214503910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214503910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214503910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214503910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214504910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214504910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214504910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214504910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214504910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214504910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214504910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214504910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214504910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214504910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214504910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214506010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214506010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214506010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214506010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214506010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214506010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214506010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214506010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214506010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214506010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214506010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214507010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214507010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214507010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214507010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214507010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214507010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214507010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214507010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214507010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214507010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214507010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214508110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214508110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214508110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214508110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214508110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214508110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214508110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214508110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214508110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214508110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214508110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214509110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214509110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214509110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214509110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214509110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214509110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214509110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214509110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214509110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214509110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214509110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214510210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214510210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214510210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214510210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214510210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214510210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214510210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214510210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214510210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214510210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214510210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214511202	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4214511202	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4214511202	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4214511202	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4214511202	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4214511202	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4214511202	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4214511202	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4214511202	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4214511202	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4214511202	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4214512205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214512205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214512205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214512205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214512205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214512205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214512205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214512205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214512205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214512205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214512205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214513305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214513305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214513305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214513305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214513305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214513305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214513305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214513305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214513305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214513305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214513305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214514305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214514305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214514305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214514305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214514305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214514305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214514305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214514305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214514305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214514305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214514305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214515405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214515405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214515405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214515405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214515405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214515405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214515405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214515405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214515405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214515405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214515405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214516405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214516405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214516405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214516405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214516405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214516405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214516405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214516405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214516405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214516405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214516405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214517505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214517505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4214517505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214517505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4214517505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4214517505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214517505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214517505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4214517505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4214517505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214517505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214518505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214518505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214518505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214518505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214518505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214518505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214518505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214518505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214518505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214518505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214518505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214519505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214519505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214519505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214519505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214519505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214519505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214519505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214519505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214519505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214519505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214519505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214520605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214520605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214520605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214520605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214520605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214520605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214520605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214520605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214520605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214520605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214520605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214521605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214521605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214521605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214521605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214521605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214521605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214521605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214521605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214521605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214521605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214521605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214522705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214522705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214522705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214522705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214522705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214522705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214522705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214522705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214522705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214522705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214522705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214523705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214523705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214523705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214523705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214523705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214523705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214523705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214523705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214523705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214523705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214523705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214524805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214524805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214524805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214524805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214524805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214524805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214524805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214524805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214524805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214524805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214524805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214525805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214525805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214525805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214525805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214525805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214525805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214525805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214525805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214525805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214525805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214525805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214526805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214526805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214526805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214526805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214526805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214526805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214526805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214526805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214526805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214526805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214526805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214527905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214527905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214527905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214527905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214527905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214527905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214527905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214527905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214527905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214527905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214527905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214528905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214528905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214528905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214528905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214528905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214528905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214528905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214528905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214528905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214528905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214528905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214530005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214530005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214530005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214530005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214530005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214530005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214530005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214530005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214530005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214530005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214530005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214531005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214531005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214531005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214531005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214531005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214531005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214531005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214531005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214531005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214531005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214531005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214532105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214532105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214532105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214532105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214532105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214532105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214532105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214532105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214532105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214532105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214532105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214533105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214533105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214533105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214533105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214533105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214533105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214533105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214533105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214533105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214533105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214533105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214534105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214534105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214534105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214534105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214534105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214534105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214534105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214534105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214534105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214534105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214534105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214535205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214535205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4214535205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214535205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4214535205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4214535205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214535205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214535205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4214535205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4214535205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214535205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214536205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214536205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214536205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214536205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214536205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214536205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214536205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214536205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214536205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214536205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214536205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214537349	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4214537349	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4214537349	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4214537349	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4214537349	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4214537349	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4214537349	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4214537349	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4214537349	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4214537349	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4214537349	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4214538310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214538310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214538310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214538310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214538310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214538310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214538310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214538310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214538310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214538310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214538310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214539410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214539410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214539410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214539410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214539410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214539410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214539410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214539410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214539410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214539410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214539410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214540410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214540410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214540410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214540410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214540410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214540410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214540410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214540410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214540410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214540410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214540410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214541510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214541510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214541510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214541510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214541510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214541510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214541510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214541510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214541510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214541510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214541510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214542510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214542510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214542510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214542510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214542510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214542510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214542510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214542510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214542510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214542510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214542510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214543510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214543510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214543510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214543510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214543510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214543510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214543510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214543510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214543510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214543510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214543510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214544610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214544610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214544610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214544610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214544610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214544610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214544610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214544610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214544610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214544610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214544610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214545610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214545610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214545610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214545610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214545610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214545610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214545610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214545610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214545610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214545610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214545610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214546710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214546710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214546710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214546710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214546710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214546710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214546710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214546710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214546710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214546710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214546710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214547710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214547710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214547710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214547710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214547710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214547710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214547710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214547710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214547710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214547710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214547710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214548810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214548810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214548810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214548810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214548810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214548810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214548810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214548810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214548810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214548810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214548810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214549810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214549810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214549810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214549810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214549810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214549810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214549810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214549810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214549810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214549810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214549810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214550810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214550810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214550810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214550810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214550810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214550810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214550810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214550810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214550810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214550810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214550810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214551910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214551910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214551910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214551910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214551910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214551910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214551910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214551910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214551910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214551910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214551910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214552910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214552910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214552910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214552910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214552910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214552910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214552910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214552910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214552910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214552910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214552910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214554010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214554010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214554010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214554010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214554010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214554010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214554010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214554010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214554010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214554010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214554010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214555010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214555010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214555010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214555010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214555010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214555010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214555010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214555010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214555010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214555010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214555010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214556110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214556110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214556110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214556110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214556110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214556110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214556110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214556110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214556110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214556110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214556110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214557110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214557110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214557110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214557110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214557110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214557110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214557110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214557110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214557110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214557110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214557110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214558110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214558110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214558110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214558110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214558110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214558110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214558110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214558110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214558110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214558110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214558110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214559210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214559210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214559210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214559210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214559210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214559210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214559210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214559210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214559210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214559210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
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4214560210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214560210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214560210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214560210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214560210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214560210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214560210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214560210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214560210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214560210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214560210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214561310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214561310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214561310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214561310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214561310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
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4214561310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214561310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214561310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214561310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214561310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214562310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214562310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214562310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214562310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214562310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214562310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214562310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214562310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214562310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214562310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214562310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214563483	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4214563483	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4214563483	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4214563483	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4214563483	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4214563483	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4214563483	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4214563483	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4214563483	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4214563483	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4214563483	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4214564410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214564410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214564410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214564410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214564410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214564410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214564410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214564410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214564410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214564410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214564410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214565410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214565410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214565410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214565410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214565410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214565410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214565410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214565410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214565410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214565410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214565410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214566510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214566510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214566510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214566510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214566510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214566510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214566510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214566510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214566510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214566510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214566510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214567510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214567510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214567510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214567510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214567510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214567510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214567510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214567510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214567510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214567510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214567510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214568610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214568610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214568610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214568610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214568610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214568610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214568610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214568610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214568610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214568610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214568610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214569610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214569610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214569610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214569610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214569610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214569610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214569610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214569610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214569610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214569610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214569610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214570710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214570710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214570710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214570710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214570710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214570710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214570710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214570710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214570710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214570710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214570710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214571710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4214571710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4214571710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4214571710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4214571710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4214571710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4214571710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4214571710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4214571710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4214571710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4214571710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4214572702	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4214572702	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4214572702	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4214572702	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4214572702	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4214572702	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4214572702	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4214572702	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4214572702	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4214572702	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4214572702	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4214573805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214573805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214573805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214573805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214573805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214573805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214573805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214573805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214573805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214573805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214573805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214574805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4214574805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4214574805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4214574805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4214574805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4214574805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4214574805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4214574805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4214574805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4214574805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4214574805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4214575905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214575905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214575905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214575905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214575905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214575905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214575905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214575905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214575905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214575905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214575905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214576905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214576905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214576905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214576905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214576905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214576905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214576905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214576905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214576905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214576905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214576905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214578005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214578005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214578005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214578005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214578005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214578005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214578005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214578005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214578005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214578005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214578005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214579005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214579005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214579005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214579005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214579005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214579005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214579005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214579005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214579005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214579005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214579005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214580005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214580005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214580005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214580005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214580005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214580005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214580005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214580005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214580005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214580005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214580005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214581105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214581105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214581105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214581105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214581105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214581105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214581105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214581105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214581105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214581105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214581105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214582105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214582105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4214582105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214582105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4214582105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4214582105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214582105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214582105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4214582105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4214582105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214582105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214583205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214583205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214583205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214583205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214583205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214583205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214583205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214583205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214583205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214583205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214583205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214584205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214584205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214584205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214584205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214584205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214584205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214584205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214584205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214584205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214584205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214584205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214585305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214585305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214585305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214585305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214585305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214585305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214585305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214585305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214585305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214585305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214585305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214586305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214586305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214586305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214586305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214586305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214586305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214586305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214586305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214586305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214586305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214586305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214587305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214587305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214587305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214587305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214587305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214587305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1

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(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214587305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214587305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214587305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214587305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214587305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214588405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214588405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214588405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214588405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214588405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214588405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214588405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214588405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214588405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214588405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214588405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214589405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214589405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214589405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214589405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214589405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214589405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214589405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214589405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214589405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214589405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214589405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214590505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214590505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214590505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214590505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214590505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214590505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214590505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214590505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214590505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214590505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214590505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214591505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214591505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214591505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214591505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214591505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214591505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214591505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214591505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214591505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214591505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214591505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214592605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214592605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214592605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214592605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214592605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214592605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214592605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214592605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214592605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214592605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214592605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214593605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214593605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214593605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214593605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214593605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214593605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214593605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214593605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214593605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214593605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214593605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214594605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214594605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214594605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214594605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214594605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214594605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214594605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214594605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214594605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214594605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214594605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214595705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214595705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214595705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214595705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214595705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214595705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214595705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214595705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214595705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214595705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214595705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214596705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214596705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214596705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214596705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214596705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214596705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214596705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214596705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214596705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214596705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214596705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214597805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214597805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214597805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214597805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214597805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214597805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214597805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214597805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1

Workpaper 017B
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Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214597805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214597805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214597805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214598843	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4214598843	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4214598843	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4214598843	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4214598843	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4214598843	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4214598843	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4214598843	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4214598843	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4214598843	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4214598843	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4214599910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214599910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214599910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214599910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214599910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214599910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214599910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214599910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214599910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214599910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214599910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214600905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214600905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214600905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214600905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214600905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214600905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214600905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214600905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214600905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214600905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214600905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214601905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214601905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214601905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214601905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214601905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214601905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214601905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214601905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214601905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214601905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214601905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214603005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214603005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214603005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214603005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214603005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214603005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214603005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214603005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214603005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214603005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214603005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214604010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214604010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214604010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214604010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214604010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214604010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214604010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214604010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214604010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214604010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214604010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214605110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214605110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214605110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214605110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214605110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214605110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214605110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214605110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214605110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214605110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214605110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214606110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214606110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214606110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214606110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214606110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214606110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214606110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214606110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214606110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214606110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214606110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214607205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214607205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214607205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214607205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214607205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214607205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214607205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214607205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214607205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214607205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214607205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214608205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214608205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214608205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214608205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214608205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214608205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214608205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214608205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214608205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214608205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1

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(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214608205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214609210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214609210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214609210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214609210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214609210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214609210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214609210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214609210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214609210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214609210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214609210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214610310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214610310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214610310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214610310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214610310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214610310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214610310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214610310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214610310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214610310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214610310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214611310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214611310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214611310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214611310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214611310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214611310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214611310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214611310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214611310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214611310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214611310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214612410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214612410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214612410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214612410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214612410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214612410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214612410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214612410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214612410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214612410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214612410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214613410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214613410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214613410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214613410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214613410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214613410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214613410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214613410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214613410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214613410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214613410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214614510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214614510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214614510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214614510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214614510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214614510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214614510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214614510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214614510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214614510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214614510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214615510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214615510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214615510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214615510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214615510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214615510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214615510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214615510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214615510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214615510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214615510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214616510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214616510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214616510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214616510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214616510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214616510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214616510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214616510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214616510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214616510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214616510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214617610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214617610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214617610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214617610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214617610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214617610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214617610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214617610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214617610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214617610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214617610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214618610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214618610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214618610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214618610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214618610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214618610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214618610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214618610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214618610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214618610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214618610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214619710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214619710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214619710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214619710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214619710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214619710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214619710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214619710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214619710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214619710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214619710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214620735	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4214620735	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4214620735	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4214620735	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4214620735	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4214620735	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4214620735	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4214620735	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4214620735	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4214620735	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4214620735	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4214622805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	TT1	100
4214622805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	TT1	100
4214622805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	TT1	100
4214622805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	TT1	100
4214622805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	TT1	100
4214622805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	TT1	100
4214622805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	TT1	100
4214622805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	TT1	100
4214622805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT1	100
4214622805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	TT1	100
4214622805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	TT1	100
4214623810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214623810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214623810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214623810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214623810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214623810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214623810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214623810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214623810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214623810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214623810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214624910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214624910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214624910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214624910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214624910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214624910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214624910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214624910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214624910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214624910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214624910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214625910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214625910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214625910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214625910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214625910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214625910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214625910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214625910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214625910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214625910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214625910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214627010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4214627010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214627010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4214627010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214627010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214627010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4214627010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4214627010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214627010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214627010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4214627010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4214628010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214628010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4214628010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214628010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4214628010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4214628010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214628010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214628010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4214628010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4214628010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214628010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214629110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214629110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214629110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214629110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214629110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214629110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214629110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214629110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214629110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214629110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214629110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214630110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214630110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214630110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214630110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214630110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214630110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214630110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214630110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214630110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214630110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214630110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214631110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214631110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214631110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214631110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214631110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214631110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214631110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214631110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214631110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214631110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214631110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214632210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214632210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214632210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214632210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214632210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214632210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214632210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214632210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214632210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214632210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214632210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214633210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214633210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214633210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214633210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214633210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214633210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214633210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214633210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214633210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214633210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214633210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214634310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214634310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214634310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214634310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214634310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214634310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214634310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214634310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214634310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214634310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214634310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214635310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214635310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214635310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214635310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214635310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214635310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214635310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214635310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214635310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214635310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214635310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214636410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214636410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214636410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214636410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214636410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214636410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214636410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214636410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214636410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214636410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214636410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214637410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214637410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214637410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214637410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214637410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214637410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214637410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214637410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214637410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214637410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214637410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214638410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214638410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214638410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214638410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214638410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214638410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214638410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214638410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214638410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214638410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214638410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214639510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4214639510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4214639510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4214639510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4214639510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4214639510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4214639510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4214639510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4214639510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4214639510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4214639510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4214640505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214640505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214640505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214640505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214640505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214640505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214640505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214640505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214640505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214640505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214640505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214641610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214641610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214641610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214641610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214641610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4214641610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214641610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214641610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214641610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214641610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214641610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214642610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214642610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214642610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214642610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214642610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214642610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214642610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214642610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214642610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214642610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214642610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4214643710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4214643710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4214643710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4214643710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4214643710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4214643710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4214643710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4214643710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4214643710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4214643710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4214643710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4219197158	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4219197158	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4219197158	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4219197158	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4219197158	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4219197158	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4219197158	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4219197158	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4219197158	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4219197158	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4219197158	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4234066405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	TT1	100
4234066405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	TT1	100
4234066405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	TT1	100
4234066405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	TT1	100
4234066405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	TT1	100
4234066405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	TT1	100
4234066405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	TT1	100
4234066405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	TT1	100
4234066405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT1	100
4234066405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	TT1	100
4234066405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	TT1	100
4266681105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4266681105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4266681105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4266681105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4266681105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4266681105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4266681105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4266681105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4266681105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4266681105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4266681105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4266739505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4266739505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4266739505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4266739505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4266739505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4266739505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4266739505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4266739505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4266739505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4266739505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4266739505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4266744705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4266744705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4266744705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4266744705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4266744705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4266744705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4266744705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4266744705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4266744705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4266744705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4266744705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4266745805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4266745805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4266745805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4266745805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4266745805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4266745805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4266745805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4266745805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4266745805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4266745805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4266745805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4266746805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	TT1	100
4266746805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	TT1	100
4266746805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	TT1	100
4266746805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	TT1	100
4266746805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	TT1	100
4266746805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	TT1	100
4266746805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	TT1	100
4266746805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	TT1	100
4266746805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT1	100
4266746805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	TT1	100
4266746805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	TT1	100
4266747905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4266747905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4266747905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4266747905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4266747905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4266747905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4266747905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4266747905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4266747905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4266747905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4266747905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4266769805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	TT1	100
4266769805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	TT1	100
4266769805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	TT1	100
4266769805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	TT1	100
4266769805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	TT1	100
4266769805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	TT1	100
4266769805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	TT1	100
4266769805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	TT1	100
4266769805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT1	100
4266769805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	TT1	100
4266769805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	TT1	100
4266770832	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	TT1	100
4266770832	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	TT1	100
4266770832	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	TT1	100
4266770832	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	TT1	100
4266770832	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	TT1	100
4266770832	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	TT1	100
4266770832	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	TT1	100
4266770832	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	TT1	100
4266770832	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT1	100
4266770832	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	TT1	100
4266770832	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	TT1	100
4273320121	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4273320121	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4273320121	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4273320121	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4273320121	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4273320121	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4273320121	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4273320121	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4273320121	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4273320121	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4273320121	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4273755272	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4273755272	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4273755272	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4273755272	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4273755272	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4273755272	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4273755272	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4273755272	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4273755272	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4273755272	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4273755272	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276968405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276968405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276968405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276968405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276968405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276968405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276968405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276968405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276968405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276968405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276968405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276969505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276969505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276969505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276969505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276969505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276969505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276969505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276969505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276969505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276969505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276969505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276970505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276970505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276970505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276970505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276970505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276970505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276970505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276970505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276970505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276970505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276970505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276979905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276979905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276979905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276979905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276979905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276979905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276979905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276979905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276979905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276979905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276979905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276982005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4276982005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4276982005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4276982005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4276982005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4276982005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4276982005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4276982005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4276982005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4276982005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4276982005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4276983071	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276983071	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276983071	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276983071	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276983071	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276983071	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276983071	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276983071	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276983071	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4276983071	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276983071	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276986205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276986205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276986205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276986205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276986205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276986205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276986205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276986205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276986205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276986205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276986205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276987205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4276987205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4276987205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4276987205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4276987205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4276987205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4276987205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4276987205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4276987205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4276987205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4276987205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4276988305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276988305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276988305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276988305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276988305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276988305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276988305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276988305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276988305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276988305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276988305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276989305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4276989305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4276989305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4276989305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4276989305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4276989305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4276989305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4276989305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4276989305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4276989305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4276989305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4276990305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276990305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276990305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276990305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276990305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276990305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276990305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276990305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276990305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276990305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276990305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276991405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276991405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276991405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276991405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276991405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276991405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276991405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276991405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276991405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276991405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276991405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276992405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276992405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276992405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276992405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276992405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276992405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276992405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276992405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276992405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276992405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276992405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276993505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276993505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276993505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276993505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276993505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276993505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276993505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276993505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276993505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276993505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276993505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276994505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276994505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276994505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276994505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276994505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276994505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276994505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276994505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276994505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276994505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276994505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276995605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276995605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276995605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276995605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276995605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276995605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276995605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276995605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276995605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276995605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276995605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4276996605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276996605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276996605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276996605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276996605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276996605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276996605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276996605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276996605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276996605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276996605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276997605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4276997605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4276997605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4276997605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4276997605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4276997605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4276997605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4276997605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4276997605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4276997605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4276997605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4276998705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4276998705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4276998705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4276998705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4276998705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4276998705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4276998705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4276998705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4276998705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4276998705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4276998705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4277000836	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support_Low_Income	5
4277000836	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support_Low_Income	5
4277000836	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support_Low_Income	5
4277000836	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support_Low_Income	5
4277000836	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support_Low_Income	5
4277000836	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support_Low_Income	5
4277000836	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support_Low_Income	5
4277000836	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support_Low_Income	5
4277000836	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
4277000836	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support_Low_Income	5
4277000836	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support_Low_Income	5
4277001805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277001805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277001805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277001805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277001805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277001805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277001805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277001805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277001805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277001805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277001805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277002905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4277002905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4277002905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4277002905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4277002905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4277002905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4277002905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4277002905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4277002905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4277002905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4277002905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4277003905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4277003905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4277003905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4277003905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4277003905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4277003905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4277003905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4277003905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4277003905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4277003905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4277003905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4277004905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277004905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277004905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277004905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277004905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277004905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277004905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277004905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277004905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277004905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277004905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277006005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277006005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277006005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277006005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277006005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277006005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277006005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277006005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277006005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277006005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277006005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277007005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277007005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277007005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277007005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277007005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277007005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277007005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277007005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277007005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277007005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277007005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277010205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277010205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4277010205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277010205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277010205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277010205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277010205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277010205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277010205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277010205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277010205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277011205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4277011205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4277011205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4277011205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4277011205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4277011205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4277011205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277011205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4277011205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4277011205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4277011205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277012205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277012205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277012205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277012205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277012205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277012205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277012205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277012205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277012205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277012205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277012205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277014305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277014305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277014305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277014305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277014305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277014305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277014305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277014305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277014305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277014305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277014305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277015405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277015405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277015405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277015405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277015405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277015405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277015405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277015405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277015405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277015405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277015405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277016405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277016405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277016405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277016405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277016405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277016405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277016405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277016405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277016405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277016405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277016405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277018505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4277018505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4277018505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4277018505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4277018505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4277018505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4277018505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4277018505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4277018505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4277018505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4277018505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4277019505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277019505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277019505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277019505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277019505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277019505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277019505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277019505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277019505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277019505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277019505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277020605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4277020605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4277020605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4277020605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4277020605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4277020605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4277020605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4277020605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4277020605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4277020605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4277020605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4277022705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277022705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277022705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277022705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277022705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277022705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277022705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277022705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277022705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277022705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277022705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277023705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277023705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277023705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277023705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4277023705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277023705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277023705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277023705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277023705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277023705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277023705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277024805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277024805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277024805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277024805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277024805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277024805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277024805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277024805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277024805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277024805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277024805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277025805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277025805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277025805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277025805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277025805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277025805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277025805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277025805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277025805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277025805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277025805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277026805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4277026805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4277026805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4277026805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4277026805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4277026805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4277026805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4277026805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4277026805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4277026805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4277026805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4277027905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4277027905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4277027905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4277027905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4277027905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4277027905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4277027905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4277027905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4277027905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4277027905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4277027905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4277028905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277028905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277028905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277028905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277028905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277028905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277028905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277028905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277028905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277028905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277028905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277030005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277030005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277030005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277030005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277030005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277030005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277030005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277030005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277030005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277030005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277030005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277031005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277031005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277031005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277031005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277031005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277031005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277031005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277031005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277031005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277031005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277031005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277032105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277032105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277032105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277032105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277032105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277032105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277032105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277032105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277032105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277032105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277032105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277033105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4277033105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4277033105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4277033105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4277033105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4277033105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4277033105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4277033105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4277033105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4277033105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4277033105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4277034105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277034105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277034105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277034105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277034105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277034105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4277034105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277034105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277034105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277034105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277034105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277036205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4277036205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4277036205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4277036205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4277036205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4277036205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4277036205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4277036205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4277036205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4277036205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4277036205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4277038305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277038305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277038305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277038305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277038305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277038305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277038305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277038305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277038305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277038305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277038305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277039405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277039405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277039405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277039405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277039405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277039405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277039405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277039405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277039405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277039405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277039405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277040405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277040405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277040405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277040405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277040405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277040405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277040405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277040405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277040405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277040405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277040405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277041405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277041405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277041405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277041405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277041405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277041405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277041405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277041405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277041405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277041405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277041405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277042505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4277042505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4277042505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4277042505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4277042505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4277042505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4277042505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4277042505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4277042505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4277042505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4277042505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4277043505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4277043505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4277043505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4277043505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4277043505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4277043505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4277043505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4277043505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4277043505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4277043505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4277043505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4277044605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277044605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277044605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277044605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277044605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277044605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277044605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277044605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277044605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277044605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277044605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277045605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277045605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277045605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277045605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277045605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277045605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277045605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277045605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277045605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277045605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277045605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277046705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277046705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277046705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277046705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277046705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277046705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277046705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277046705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1

Workpaper 017B
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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4277046705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277046705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277046705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277047705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277047705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277047705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277047705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277047705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277047705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277047705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277047705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277047705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277047705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277047705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277136405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277136405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277136405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277136405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277136405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277136405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277136405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277136405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277136405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277136405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277136405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277137405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4277137405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4277137405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4277137405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4277137405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4277137405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4277137405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4277137405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4277137405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4277137405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4277137405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4277139505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4277139505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4277139505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4277139505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4277139505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4277139505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4277139505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4277139505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4277139505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4277139505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4277139505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4277140505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277140505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277140505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277140505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277140505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277140505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277140505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277140505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277140505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277140505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277140505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277141605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277141605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277141605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277141605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277141605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277141605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277141605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277141605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277141605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277141605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277141605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277142605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277142605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277142605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277142605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277142605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277142605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277142605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277142605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277142605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277142605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277142605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277143705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277143705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277143705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277143705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277143705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277143705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277143705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277143705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277143705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277143705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277143705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277144705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277144705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277144705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277144705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277144705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277144705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277144705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277144705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277144705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277144705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277144705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277145705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277145705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277145705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277145705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277145705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277145705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277145705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277145705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277145705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277145705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4277145705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277146805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4277146805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4277146805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4277146805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4277146805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4277146805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4277146805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4277146805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4277146805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4277146805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4277146805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4277147805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277147805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277147805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277147805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277147805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277147805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277147805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277147805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277147805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277147805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277147805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277148905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4277148905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4277148905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4277148905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4277148905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4277148905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4277148905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4277148905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4277148905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4277148905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4277148905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4277149905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277149905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277149905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277149905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277149905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277149905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277149905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277149905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277149905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277149905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277149905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277152005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277152005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277152005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277152005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277152005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277152005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277152005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277152005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277152005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277152005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277152005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277153005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4277153005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4277153005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4277153005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4277153005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4277153005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4277153005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4277153005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4277153005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4277153005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4277153005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4277154105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277154105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277154105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277154105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277154105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277154105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277154105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277154105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277154105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277154105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277154105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277155105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4277155105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4277155105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4277155105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4277155105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4277155105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4277155105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4277155105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4277155105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4277155105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4277155105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4277156205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277156205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277156205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277156205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277156205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277156205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277156205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277156205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277156205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277156205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277156205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277157205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4277157205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277157205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277157205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277157205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277157205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277157205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277157205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277157205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277157205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277157205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277158305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4277158305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4277158305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4277158305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4277158305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4277158305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4277158305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4277158305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4277158305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4277158305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4277158305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4277162405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	TT1	100
4277162405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	TT1	100
4277162405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	TT1	100
4277162405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	TT1	100
4277162405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	TT1	100
4277162405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	TT1	100
4277162405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	TT1	100
4277162405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	TT1	100
4277162405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT1	100
4277162405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	TT1	100
4277162405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	TT1	100
4287427910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287427910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287427910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287427910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287427910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287427910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287427910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287427910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287427910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287427910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287427910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287428910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287428910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287428910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287428910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287428910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287428910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287428910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287428910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287428910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287428910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287428910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287430010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287430010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287430010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287430010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287430010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287430010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287430010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287430010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287430010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287430010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287430010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287431010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287431010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287431010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287431010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287431010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287431010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287431010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287431010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287431010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287431010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287431010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287432010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287432010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287432010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287432010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287432010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287432010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287432010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287432010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287432010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287432010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287432010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287433105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287433105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287433105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287433105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287433105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287433105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287433105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287433105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287433105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287433105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287433105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287434110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287434110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287434110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287434110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287434110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287434110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287434110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287434110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287434110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287434110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287434110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287435210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287435210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287435210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287435210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287435210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287435210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287435210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287435210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287435210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287435210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287435210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287437305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287437305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287437305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4287437305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287437305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287437305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287437305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287437305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287437305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287437305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287437305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287438310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287438310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287438310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287438310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287438310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287438310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287438310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287438310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287438310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287438310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287438310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287439310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287439310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287439310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287439310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287439310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287439310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287439310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287439310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287439310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287439310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287439310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287440405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287440405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287440405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287440405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287440405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287440405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287440405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287440405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287440405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287440405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287440405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287441405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4287441405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4287441405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4287441405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4287441405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4287441405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4287441405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4287441405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4287441405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4287441405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4287441405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4287561410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287561410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287561410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287561410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287561410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287561410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287561410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287561410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287561410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287561410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287561410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287562405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287562405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287562405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287562405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287562405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287562405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287562405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287562405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287562405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287562405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287562405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287563505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4287563505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4287563505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4287563505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4287563505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4287563505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4287563505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4287563505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4287563505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4287563505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4287563505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4287564510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287564510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287564510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287564510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287564510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287564510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287564510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287564510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287564510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287564510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287564510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287565505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287565505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287565505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287565505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287565505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287565505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287565505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287565505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287565505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287565505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287565505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287567605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287567605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287567605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287567605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287567605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4287567605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287567605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287567605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287567605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287567605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287567605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287568705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287568705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287568705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287568705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287568705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287568705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287568705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287568705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287568705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287568705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287568705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287569710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287569710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287569710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287569710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287569710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287569710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287569710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287569710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287569710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287569710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287569710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287570805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4287570805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4287570805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4287570805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4287570805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4287570805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4287570805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4287570805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4287570805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4287570805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4287570805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4287571805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287571805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287571805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287571805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287571805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287571805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287571805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287571805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287571805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287571805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287571805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287572805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287572805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287572805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287572805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287572805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287572805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287572805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287572805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287572805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287572805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287572805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287573905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287573905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287573905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287573905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287573905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287573905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287573905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287573905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287573905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287573905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287573905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287574910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287574910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287574910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287574910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287574910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287574910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287574910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287574910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287574910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287574910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287574910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287576010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287576010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287576010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287576010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287576010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287576010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287576010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287576010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287576010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287576010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287576010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287577005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287577005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287577005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287577005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287577005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287577005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287577005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287577005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287577005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287577005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287577005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287578110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287578110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287578110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287578110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287578110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287578110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287578110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4287578110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287578110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287578110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287578110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287579110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Medical_Baseline	2
4287579110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Medical_Baseline	2
4287579110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Medical_Baseline	2
4287579110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Medical_Baseline	2
4287579110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Medical_Baseline	2
4287579110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Medical_Baseline	2
4287579110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Medical_Baseline	2
4287579110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Medical_Baseline	2
4287579110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline	2
4287579110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Medical_Baseline	2
4287579110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Medical_Baseline	2
4287580105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287580105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4287580105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287580105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4287580105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4287580105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287580105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287580105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4287580105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4287580105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287580105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287581205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4287581205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4287581205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4287581205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4287581205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4287581205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4287581205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4287581205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4287581205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4287581205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4287581205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4287582205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4287582205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4287582205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4287582205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4287582205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4287582205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4287582205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4287582205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4287582205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4287582205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4287582205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4287583310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287583310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287583310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287583310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287583310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287583310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287583310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287583310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287583310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287583310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287583310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287584310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287584310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287584310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287584310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287584310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287584310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287584310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287584310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287584310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287584310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287584310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287585405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287585405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4287585405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287585405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4287585405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4287585405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287585405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287585405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4287585405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4287585405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287585405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287586405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287586405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287586405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287586405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287586405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287586405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287586405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287586405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287586405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287586405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287586405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287587405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287587405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4287587405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287587405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4287587405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4287587405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287587405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287587405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4287587405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4287587405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287587405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287588505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287588505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287588505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287588505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287588505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287588505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287588505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287588505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287588505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4287588505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287588505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287589505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287589505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287589505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287589505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287589505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287589505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287589505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287589505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287589505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287589505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287589505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287590610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4287590610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4287590610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4287590610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4287590610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4287590610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4287590610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4287590610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4287590610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4287590610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4287590610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4287591605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287591605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287591605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287591605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287591605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287591605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287591605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287591605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287591605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287591605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287591605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287592710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287592710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287592710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287592710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287592710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287592710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287592710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287592710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287592710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287592710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287592710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287593705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287593705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287593705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287593705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287593705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287593705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287593705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287593705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287593705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287593705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287593705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287594705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287594705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287594705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287594705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287594705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287594705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287594705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287594705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287594705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287594705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287594705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287595805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287595805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287595805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287595805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287595805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287595805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287595805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287595805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287595805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287595805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287595805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287596805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287596805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287596805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287596805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287596805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287596805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287596805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287596805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287596805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287596805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287596805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287597905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287597905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287597905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287597905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287597905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287597905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287597905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287597905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287597905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287597905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287597905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287598910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287598910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287598910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287598910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287598910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287598910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287598910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287598910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287598910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287598910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287598910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4287600010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287600010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287600010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287600010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287600010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287600010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287600010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287600010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287600010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287600010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287600010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287601010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287601010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287601010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287601010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287601010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287601010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287601010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287601010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287601010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287601010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287601010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287602005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287602005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287602005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287602005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287602005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287602005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287602005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287602005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287602005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287602005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287602005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287603110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287603110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287603110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287603110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287603110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287603110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287603110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287603110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287603110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287603110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287603110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287604105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287604105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287604105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287604105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287604105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287604105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287604105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287604105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287604105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287604105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287604105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287605205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287605205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287605205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287605205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287605205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287605205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287605205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287605205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287605205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287605205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287605205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4287606205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4287606205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4287606205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4287606205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4287606205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4287606205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4287606205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4287606205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4287606205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4287606205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4287606205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4287607310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4287607310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4287607310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4287607310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4287607310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4287607310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4287607310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4287607310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4287607310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4287607310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4287607310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4295105622	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4295105622	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4295105622	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4295105622	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4295105622	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4295105622	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4295105622	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4295105622	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4295105622	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4295105622	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4295105622	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297744405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297744405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297744405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297744405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297744405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297744405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297744405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297744405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297744405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297744405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297744405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297745410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297745410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297745410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297745410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297745410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297745410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297745410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297745410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297745410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297745410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297745410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297746510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297746510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297746510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297746510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297746510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297746510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297746510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297746510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297746510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297746510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297746510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297747510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297747510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297747510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297747510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297747510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297747510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297747510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297747510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297747510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297747510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297747510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297748605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4297748605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4297748605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4297748605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4297748605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4297748605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4297748605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4297748605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4297748605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4297748605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4297748605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4297749605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
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4297749605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297749605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297749605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297749605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297749605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297749605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297749605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297749605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297749605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297750705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297750705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297750705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297750705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297750705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297750705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297751705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297751705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297751705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297751705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297751705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297751705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297751705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297751705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297751705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297751705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297751705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297752705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297752705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297752705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297752705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297752705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297752705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297752705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297752705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297752705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297752705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297752705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297753805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297753805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297753805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297753805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297753805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297753805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297753805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297753805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297753805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297753805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297753805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297754810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297754810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297754810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297754810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297754810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297754810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297754810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297754810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297754810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297754810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297754810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297755905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297755905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297755905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297755905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297755905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297755905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297755905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297755905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297755905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297755905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297755905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297756910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297756910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297756910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297756910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297756910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297756910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297756910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297756910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297756910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297756910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297756910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297758010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297758010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297758010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297758010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297758010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297758010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297758010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297758010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297758010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297758010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297758010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297759010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297759010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297759010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297759010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297759010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297759010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297759010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297759010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297759010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297759010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297759010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
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4297760010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297760010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
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4297760010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297760010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297760010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297760010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297760010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297760010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297760010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
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4297761110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297761110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297761110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297761110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297761110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297761110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297761110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297761110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297761110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297761110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297762110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297762110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297762110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297762110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297762110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297762110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297762110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297762110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297762110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297762110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297762110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297763205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297763205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297763205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297763205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297763205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297763205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297763205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297763205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297763205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297763205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297763205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297764210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297764210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297764210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297764210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297764210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297764210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297764210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297764210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297764210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297764210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297764210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297765305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297765305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297765305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297765305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297765305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297765305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297765305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297765305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297765305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297765305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297765305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297766305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4297766305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4297766305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4297766305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4297766305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4297766305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4297766305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4297766305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4297766305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4297766305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4297766305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297767310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297767310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297767310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297767310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297767310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297767310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297767310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297767310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297767310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297767310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297767310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297769405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297769405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297769405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297769405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297769405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297769405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297769405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297769405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297769405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297769405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297769405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297770505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297770505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297770505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297770505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297770505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297770505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297770505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297770505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297770505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297770505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297770505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297771510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297771510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297771510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297771510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297771510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297771510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297771510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297771510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297771510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297771510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297771510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297772605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297772605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297772605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297772605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297772605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297772605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297772605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297772605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297772605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297772605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297772605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297773610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297773610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297773610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297773610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297773610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297773610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297773610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297773610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297773610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297773610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297773610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297774705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297774705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297774705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297774705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297774705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297774705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297774705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297774705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297774705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297774705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297774705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297775705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297775705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297775705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297775705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297775705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297775705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297775705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297775705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297775705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297775705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297775705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297776705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297776705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297776705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297776705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297776705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297776705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297776705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297776705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297776705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297776705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297776705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297777805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297777805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297777805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297777805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297777805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297777805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297777805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297777805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297777805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297777805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297777805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297778805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297778805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1

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(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297778805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297778805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297778805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297778805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297778805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297778805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297778805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297778805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297778805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297779905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297779905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297779905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297779905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297779905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297779905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297779905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297779905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297779905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297779905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297779905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297780905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297780905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297780905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297780905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297780905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297780905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297780905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297780905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297780905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297780905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297780905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297782005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297782005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297782005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297782005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297782005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297782005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297782005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297782005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297782005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297782005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297782005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297783010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4297783010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4297783010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4297783010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4297783010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4297783010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4297783010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4297783010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4297783010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4297783010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4297783010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4297784005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297784005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297784005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297784005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297784005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297784005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297784005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297784005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297784005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297784005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297784005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297785110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297785110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297785110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297785110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297785110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297785110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297785110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297785110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297785110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297785110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297785110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297786110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297786110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297786110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297786110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297786110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297786110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297786110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297786110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297786110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297786110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297786110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297787210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297787210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297787210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297787210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297787210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297787210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297787210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297787210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297787210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297787210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297787210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297788210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297788210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297788210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297788210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297788210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297788210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297788210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297788210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297788210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297788210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297788210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297789305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4297789305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4297789305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4297789305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297789305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4297789305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4297789305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4297789305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4297789305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4297789305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4297789305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4297790310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297790310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297790310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297790310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297790310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297790310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297790310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297790310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297790310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297790310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297790310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297791305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4297791305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4297791305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4297791305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4297791305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4297791305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4297791305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4297791305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4297791305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4297791305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4297791305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4297792405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297792405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297792405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297792405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297792405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297792405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297792405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297792405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297792405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297792405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297792405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297793405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Medical_Baseline	2
4297793405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Medical_Baseline	2
4297793405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Medical_Baseline	2
4297793405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Medical_Baseline	2
4297793405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Medical_Baseline	2
4297793405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Medical_Baseline	2
4297793405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Medical_Baseline	2
4297793405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Medical_Baseline	2
4297793405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline	2
4297793405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Medical_Baseline	2
4297793405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Medical_Baseline	2
4297794505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297794505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297794505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297794505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297794505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297794505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297794505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297794505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297794505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297794505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297794505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297795510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4297795510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4297795510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4297795510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4297795510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4297795510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4297795510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4297795510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4297795510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4297795510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4297795510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4297796605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297796605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297796605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297796605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297796605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297796605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297796605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297796605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297796605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297796605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297796605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297797605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297797605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297797605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297797605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297797605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297797605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297797605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297797605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297797605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297797605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297797605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297798605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297798605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297798605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297798605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297798605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297798605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297798605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297798605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297798605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297798605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297798605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297799710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297799710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297799710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297799710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297799710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297799710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297799710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297799710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297799710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297799710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297799710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297800705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297800705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297800705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297800705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297800705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297800705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297800705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297800705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297800705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297800705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297800705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297801805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297801805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297801805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297801805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297801805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297801805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297801805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297801805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297801805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297801805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297801805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297802810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297802810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297802810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297802810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297802810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297802810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297802810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297802810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297802810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297802810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297802810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297803905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297803905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297803905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297803905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297803905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297803905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297803905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297803905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297803905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297803905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297803905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297804905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297804905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297804905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297804905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297804905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297804905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297804905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297804905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297804905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297804905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297804905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297805905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297805905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297805905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297805905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297805905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297805905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297805905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297805905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297805905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297805905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297805905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297807005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297807005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297807005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297807005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297807005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297807005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297807005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297807005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297807005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297807005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297807005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297808010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297808010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297808010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297808010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297808010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297808010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297808010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297808010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297808010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297808010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297808010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297809105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297809105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297809105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297809105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297809105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297809105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297809105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297809105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297809105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297809105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297809105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297810110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Medical_Baseline_Low_Income	5
4297810110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Medical_Baseline_Low_Income	5
4297810110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Medical_Baseline_Low_Income	5
4297810110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Medical_Baseline_Low_Income	5
4297810110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Medical_Baseline_Low_Income	5
4297810110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Medical_Baseline_Low_Income	5
4297810110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Medical_Baseline_Low_Income	5
4297810110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Medical_Baseline_Low_Income	5

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297810110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline_Low_Income	5
4297810110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Medical_Baseline_Low_Income	5
4297810110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Medical_Baseline_Low_Income	5
4297811210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297811210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297811210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297811210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297811210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297811210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297811210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297811210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297811210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297811210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297811210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297812210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297812210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297812210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297812210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297812210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297812210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297812210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297812210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297812210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297812210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297812210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297813205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297813205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297813205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297813205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297813205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297813205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297813205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297813205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297813205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297813205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297813205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297814305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297814305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297814305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297814305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297814305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297814305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297814305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297814305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297814305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297814305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297814305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297815305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297815305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297815305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297815305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297815305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297815305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297815305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297815305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297815305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297815305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297815305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297816405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4297816405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4297816405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4297816405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4297816405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4297816405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4297816405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4297816405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4297816405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4297816405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4297816405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4297817410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297817410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297817410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297817410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297817410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297817410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297817410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297817410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297817410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297817410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297817410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297818510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297818510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297818510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297818510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297818510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297818510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297818510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297818510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297818510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297818510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297818510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297819510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297819510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297819510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297819510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297819510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297819510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297819510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297819510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297819510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297819510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297819510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297820510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297820510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297820510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297820510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297820510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297820510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297820510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297820510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297820510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297820510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297820510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297821610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297821610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297821610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297821610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297821610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297821610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297821610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297821610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297821610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297821610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297821610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297822605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297822605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297822605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297822605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297822605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297822605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297822605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297822605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297822605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297822605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297822605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297823710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297823710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297823710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297823710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297823710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297823710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297823710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297823710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297823710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297823710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297823710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297824710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297824710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297824710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297824710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297824710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297824710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297824710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297824710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297824710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297824710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297824710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297825810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297825810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297825810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297825810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297825810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297825810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297825810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297825810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297825810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297825810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297825810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297826805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297826805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297826805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297826805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297826805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297826805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297826805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297826805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297826805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297826805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297826805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297827805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297827805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297827805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297827805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297827805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297827805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297827805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297827805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297827805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297827805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297827805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297828905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297828905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297828905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297828905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297828905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297828905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297828905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297828905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297828905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297828905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297828905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297829905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297829905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297829905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297829905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297829905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297829905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297829905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297829905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297829905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297829905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297829905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297831005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297831005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297831005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297831005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297831005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297831005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297831005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297831005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297831005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297831005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297831005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297832010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1

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PSPS Toy Problem Calculations
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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297832010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297832010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297832010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297832010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297832010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297832010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297832010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297832010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297832010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297832010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297833110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297833110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297833110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297833110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297833110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297833110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297833110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297833110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297833110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297833110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297833110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297834110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4297834110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4297834110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4297834110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4297834110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4297834110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4297834110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4297834110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4297834110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4297834110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4297834110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4297835105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297835105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297835105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297835105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297835105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297835105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297835105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297835105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297835105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297835105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297835105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297836205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297836205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297836205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297836205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297836205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297836205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297836205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297836205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297836205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297836205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297836205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297837210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297837210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297837210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297837210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297837210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297837210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297837210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297837210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297837210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297837210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297837210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297838310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297838310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297838310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297838310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297838310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297838310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297838310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297838310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297838310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297838310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297838310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297839305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297839305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297839305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297839305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297839305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297839305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297839305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297839305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297839305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297839305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297839305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297840410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297840410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297840410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297840410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297840410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297840410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297840410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297840410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297840410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297840410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297840410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297841405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297841405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297841405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297841405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297841405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297841405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297841405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297841405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297841405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297841405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297841405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297842410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Medical_Baseline	2
4297842410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Medical_Baseline	2
4297842410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Medical_Baseline	2

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297842410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Medical_Baseline	2
4297842410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Medical_Baseline	2
4297842410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Medical_Baseline	2
4297842410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Medical_Baseline	2
4297842410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Medical_Baseline	2
4297842410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline	2
4297842410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Medical_Baseline	2
4297842410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Medical_Baseline	2
4297843510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297843510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297843510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297843510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297843510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297843510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297843510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297843510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297843510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297843510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297843510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297844510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297844510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297844510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297844510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297844510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297844510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297844510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297844510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297844510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297844510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297844510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297845610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297845610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297845610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297845610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297845610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297845610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297845610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297845610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297845610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297845610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297845610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297846610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support_Low_Income	5
4297846610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support_Low_Income	5
4297846610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support_Low_Income	5
4297846610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support_Low_Income	5
4297846610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support_Low_Income	5
4297846610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support_Low_Income	5
4297846610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support_Low_Income	5
4297846610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support_Low_Income	5
4297846610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
4297846610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support_Low_Income	5
4297846610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support_Low_Income	5
4297847710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297847710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297847710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297847710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297847710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297847710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297847710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297847710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297847710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297847710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297847710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297848710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297848710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297848710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297848710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297848710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297848710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297848710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297848710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297848710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297848710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297848710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297849710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297849710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297849710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
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4297849710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297849710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297849710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297849710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297849710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297849710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297849710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297850810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297850810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297850810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
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4297850810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297850810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297850810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297850810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297850810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297850810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297850810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
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4297851810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297851810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297851810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297851810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297851810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
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4297851810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297851810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297851810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297851810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297852910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297852910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297852910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297852910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297852910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1

Workpaper 017B
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Electrical Undergrounding Program
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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297852910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297852910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297852910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297852910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297852910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297852910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297853905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297853905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297853905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297853905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297853905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297853905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297853905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297853905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297853905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297853905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297853905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297855005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297855005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297855005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297855005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297855005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297855005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297855005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297855005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297855005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297855005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297855005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297856005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297856005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297856005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297856005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297856005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297856005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297856005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297856005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297856005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297856005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297856005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297857010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297857010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297857010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297857010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297857010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297857010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297857010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297857010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297857010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297857010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297857010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297858110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297858110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297858110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297858110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297858110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297858110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297858110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297858110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297858110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297858110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297858110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297859110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297859110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297859110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297859110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297859110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297859110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297859110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297859110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297859110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297859110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297859110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297860205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297860205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297860205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297860205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297860205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297860205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297860205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297860205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297860205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297860205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297860205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297861210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297861210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297861210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297861210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297861210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297861210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297861210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297861210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297861210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297861210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297861210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297862310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4297862310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4297862310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4297862310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4297862310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4297862310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4297862310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4297862310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4297862310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4297862310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4297862310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4297863310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297863310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297863310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297863310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297863310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297863310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297863310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1

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Pacific Gas and Electric Company
Electrical Undergrounding Program
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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297863310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297863310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297863310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297863310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297864305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297864305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297864305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297864305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297864305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297864305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297864305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297864305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297864305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297864305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297864305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297865405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297865405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297865405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297865405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297865405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297865405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297865405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297865405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297865405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297865405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297865405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297866405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297866405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297866405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297866405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297866405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297866405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297866405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297866405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297866405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297866405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297866405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297867510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297867510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297867510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297867510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297867510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297867510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297867510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297867510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297867510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297867510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297867510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297868510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297868510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297868510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297868510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297868510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297868510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297868510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297868510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297868510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297868510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297868510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297869610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297869610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297869610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297869610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297869610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297869610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297869610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297869610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297869610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297869610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297869610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297870610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297870610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297870610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297870610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297870610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297870610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297870610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297870610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297870610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297870610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297870610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297871610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4297871610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4297871610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4297871610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4297871610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4297871610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4297871610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4297871610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4297871610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4297871610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4297871610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4297872705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297872705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297872705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297872705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297872705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297872705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297872705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297872705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297872705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297872705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297872705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297873710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297873710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297873710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297873710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297873710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297873710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297873710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297873710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297873710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297873710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297873710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297874805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297874805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297874805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297874805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297874805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297874805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297874805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297874805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297874805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297874805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297874805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297875810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297875810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297875810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297875810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297875810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297875810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297875810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297875810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297875810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297875810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297875810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297876910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297876910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297876910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297876910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297876910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297876910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297876910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297876910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297876910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297876910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297876910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297877910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297877910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297877910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297877910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297877910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297877910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297877910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297877910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297877910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297877910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297877910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297879005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297879005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297879005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297879005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297879005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297879005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297879005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297879005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297879005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297879005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297879005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297880005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297880005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297880005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297880005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297880005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297880005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297880005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297880005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297880005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297880005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297880005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297881005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297881005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297881005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297881005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297881005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297881005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297881005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297881005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297881005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297881005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297881005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297882110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297882110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297882110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297882110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297882110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297882110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297882110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297882110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297882110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297882110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297882110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297883105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297883105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297883105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297883105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297883105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297883105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297883105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297883105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297883105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297883105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297883105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297884205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297884205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297884205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297884205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297884205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297884205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297884205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297884205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297884205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297884205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297884205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1

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(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297885210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4297885210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4297885210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4297885210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4297885210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4297885210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4297885210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4297885210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4297885210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4297885210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4297885210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4297886305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297886305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297886305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297886305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297886305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297886305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297886305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297886305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297886305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297886305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297886305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297887305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297887305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297887305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297887305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297887305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297887305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297887305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297887305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297887305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297887305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297887305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297888305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297888305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297888305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297888305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297888305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297888305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297888305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297888305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297888305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297888305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297888305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297910210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297910210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297910210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297910210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297910210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297910210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297910210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297910210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297910210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297910210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297910210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297911310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297911310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297911310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297911310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297911310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297911310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297911310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297911310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297911310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297911310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297911310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297912305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4297912305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4297912305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4297912305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4297912305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4297912305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4297912305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4297912305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4297912305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4297912305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4297912305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4297913405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297913405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297913405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297913405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297913405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297913405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297913405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297913405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297913405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297913405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297913405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297914405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297914405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297914405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297914405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297914405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297914405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297914405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297914405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297914405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297914405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
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4297915510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297915510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297915510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297915510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297915510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297915510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297915510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297915510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297915510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297915510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297915510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297916510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297916510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297916510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297916510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297916510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297916510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297916510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297916510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297916510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297916510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297916510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297917510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297917510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297917510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297917510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297917510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297917510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297917510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297917510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297917510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297917510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297917510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297918610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297918610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297918610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297918610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297918610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297918610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297918610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297918610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297918610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297918610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297918610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297919610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297919610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297919610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297919610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297919610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297919610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297919610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297919610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297919610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297919610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297919610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297920710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297920710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297920710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297920710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297920710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297920710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297920710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297920710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297920710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297920710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297920710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297921705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297921705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297921705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297921705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297921705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297921705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297921705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297921705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297921705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297921705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297921705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297922810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4297922810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4297922810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4297922810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4297922810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4297922810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4297922810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4297922810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4297922810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4297922810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4297922810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4297923805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297923805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297923805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297923805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297923805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297923805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297923805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297923805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297923805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297923805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297923805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297924805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Medical_Baseline	2
4297924805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Medical_Baseline	2
4297924805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Medical_Baseline	2
4297924805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Medical_Baseline	2
4297924805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Medical_Baseline	2
4297924805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Medical_Baseline	2
4297924805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Medical_Baseline	2
4297924805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Medical_Baseline	2
4297924805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline	2
4297924805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Medical_Baseline	2
4297924805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Medical_Baseline	2
4297931110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4297931110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4297931110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4297931110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4297931110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4297931110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4297931110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4297931110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4297931110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4297931110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4297931110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4297932105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	TT2	100
4297932105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	TT2	100
4297932105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	TT2	100
4297932105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	TT2	100

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297932105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	TT2	100
4297932105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	TT2	100
4297932105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	TT2	100
4297932105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	TT2	100
4297932105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT2	100
4297932105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	TT2	100
4297932105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	TT2	100
4297933210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297933210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297933210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297933210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297933210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297933210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297933210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297933210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297933210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297933210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297933210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297934210	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297934210	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297934210	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297934210	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297934210	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297934210	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297934210	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297934210	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297934210	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297934210	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297934210	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297935305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297935305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297935305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297935305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297935305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297935305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297935305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297935305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297935305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297935305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297935305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297936305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297936305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297936305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297936305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297936305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297936305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297936305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297936305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297936305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297936305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297936305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297937410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4297937410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4297937410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4297937410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4297937410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4297937410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4297937410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4297937410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4297937410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4297937410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4297937410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4297938410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297938410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297938410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297938410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297938410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297938410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297938410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297938410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297938410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297938410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297938410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297939410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4297939410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4297939410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4297939410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4297939410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4297939410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4297939410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4297939410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4297939410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4297939410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4297939410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4297940505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297940505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297940505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297940505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297940505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297940505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297940505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297940505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297940505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297940505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297940505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297941505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297941505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297941505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297941505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297941505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297941505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297941505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297941505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297941505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297941505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297941505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297942605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297942605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297942605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297942605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297942605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297942605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297942605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297942605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297942605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297942605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297942605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297943605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297943605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297943605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297943605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297943605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297943605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297943605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297943605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297943605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297943605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297943605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297944710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297944710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297944710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297944710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297944710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297944710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297944710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297944710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297944710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297944710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297944710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297945710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297945710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297945710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297945710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297945710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297945710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297945710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297945710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297945710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297945710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297945710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297946710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297946710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297946710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297946710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297946710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297946710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297946710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297946710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297946710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297946710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297946710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297947810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4297947810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4297947810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4297947810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4297947810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4297947810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4297947810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4297947810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4297947810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4297947810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4297947810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4297948805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297948805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297948805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297948805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297948805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297948805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297948805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297948805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297948805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297948805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297948805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297949905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297949905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297949905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297949905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297949905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297949905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297949905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297949905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297949905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297949905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297949905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297950905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297950905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297950905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297950905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297950905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297950905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297950905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297950905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297950905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297950905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297950905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297952005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297952005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297952005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297952005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297952005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297952005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297952005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297952005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297952005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297952005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297952005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297953005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297953005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297953005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297953005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297953005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297953005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297953005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297953005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2

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Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297953005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297953005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297953005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297954005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297954005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297954005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297954005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297954005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297954005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297954005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297954005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297954005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297954005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297954005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297955105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297955105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297955105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297955105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297955105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297955105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297955105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297955105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297955105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297955105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297955105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297956105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4297956105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4297956105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4297956105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4297956105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4297956105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4297956105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4297956105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4297956105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4297956105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4297956105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4297957205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support_Low_Income	5
4297957205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4297957205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support_Low_Income	5
4297957205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4297957205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4297957205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support_Low_Income	5
4297957205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support_Low_Income	5
4297957205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4297957205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4297957205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support_Low_Income	5
4297957205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support_Low_Income	5
4297958205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Medical_Baseline	2
4297958205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Medical_Baseline	2
4297958205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Medical_Baseline	2
4297958205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Medical_Baseline	2
4297958205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Medical_Baseline	2
4297958205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Medical_Baseline	2
4297958205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Medical_Baseline	2
4297958205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Medical_Baseline	2
4297958205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline	2
4297958205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Medical_Baseline	2
4297958205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Medical_Baseline	2
4297959365	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4297959365	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4297959365	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4297959365	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4297959365	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4297959365	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4297959365	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4297959365	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4297959365	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4297959365	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4297959365	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4297960305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297960305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297960305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297960305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297960305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297960305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297960305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297960305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297960305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297960305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297960305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297961310	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297961310	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297961310	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297961310	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297961310	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297961310	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297961310	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297961310	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297961310	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297961310	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297961310	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297962405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297962405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297962405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297962405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297962405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297962405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297962405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297962405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297962405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297962405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297962405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297963405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297963405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297963405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297963405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297963405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297963405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297963405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297963405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297963405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297963405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1

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PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297963405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297965505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297965505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297965505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297965505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297965505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297965505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297965505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297965505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297965505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297965505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297965505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297966605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297966605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297966605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297966605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297966605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297966605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297966605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297966605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297966605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297966605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297966605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297967605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297967605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297967605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297967605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297967605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297967605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297967605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297967605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297967605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297967605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297967605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297968610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297968610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297968610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297968610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297968610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297968610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297968610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297968610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297968610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297968610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297968610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297969705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297969705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297969705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297969705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297969705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297969705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297969705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297969705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297969705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297969705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297969705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297970710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297970710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297970710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297970710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297970710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
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4297970710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297970710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297970710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297970710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297970710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297971810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297971810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297971810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297971810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297971810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297971810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297971810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297971810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297971810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297971810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297971810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297972810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297972810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297972810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297972810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297972810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297972810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297972810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297972810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297972810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297972810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297972810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297973910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297973910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297973910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297973910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297973910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297973910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297973910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297973910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297973910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297973910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297973910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297974910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297974910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297974910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297974910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297974910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297974910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297974910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297974910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297974910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297974910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297974910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297975910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297975910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297975910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297975910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297975910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297975910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297975910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297975910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297975910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297975910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297975910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297977010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297977010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297977010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297977010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297977010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297977010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297977010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297977010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297977010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297977010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297977010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297978010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297978010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297978010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297978010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297978010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297978010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297978010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297978010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297978010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297978010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297978010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297979105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support_Low_Income	5
4297979105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support_Low_Income	5
4297979105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support_Low_Income	5
4297979105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support_Low_Income	5
4297979105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support_Low_Income	5
4297979105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support_Low_Income	5
4297979105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support_Low_Income	5
4297979105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support_Low_Income	5
4297979105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
4297979105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support_Low_Income	5
4297979105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support_Low_Income	5
4297981205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297981205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297981205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297981205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297981205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297981205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297981205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297981205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297981205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297981205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297981205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297982205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297982205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297982205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297982205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297982205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4297982205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297982205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297982205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297982205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297982205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297982205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4297983305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297983305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297983305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297983305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297983305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297983305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297983305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297983305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297983305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297983305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297983305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297984305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297984305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297984305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297984305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297984305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297984305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297984305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297984305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297984305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297984305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297984305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297985305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297985305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297985305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297985305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297985305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297985305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297985305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297985305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297985305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297985305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297985305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297986405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297986405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297986405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297986405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297986405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297986405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297986405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297986405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297986405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297986405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297986405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297987405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297987405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297987405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1

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Electrical Undergrounding Program
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High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297987405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297987405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297987405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297987405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297987405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297987405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297987405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297987405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297988505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297988505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297988505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297988505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297988505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297988505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297988505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297988505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297988505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297988505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297988505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297989505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297989505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297989505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297989505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297989505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297989505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297989505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297989505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297989505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297989505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297989505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297990605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4297990605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4297990605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4297990605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4297990605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4297990605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4297990605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4297990605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4297990605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4297990605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4297990605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4297991605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4297991605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4297991605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4297991605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4297991605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4297991605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4297991605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4297991605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4297991605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4297991605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4297991605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4297993705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297993705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297993705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297993705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297993705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297993705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297993705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297993705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297993705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297993705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297993705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297994710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297994710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297994710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297994710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297994710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297994710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297994710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297994710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297994710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297994710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297994710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297996805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297996805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297996805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297996805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297996805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297996805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297996805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297996805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297996805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297996805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297996805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297997905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297997905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297997905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297997905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297997905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297997905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297997905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297997905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297997905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297997905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297997905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297998910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4297998910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4297998910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4297998910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4297998910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4297998910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4297998910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4297998910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4297998910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4297998910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4297998910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4297999905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4297999905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4297999905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4297999905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4297999905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2

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Electrical Undergrounding Program
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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4297999905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4297999905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4297999905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4297999905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4297999905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4297999905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4298001005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Medical_Baseline	2
4298001005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Medical_Baseline	2
4298001005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Medical_Baseline	2
4298001005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Medical_Baseline	2
4298001005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Medical_Baseline	2
4298001005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Medical_Baseline	2
4298001005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Medical_Baseline	2
4298001005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Medical_Baseline	2
4298001005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline	2
4298001005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Medical_Baseline	2
4298001005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Medical_Baseline	2
4298002005	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298002005	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298002005	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298002005	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298002005	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298002005	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298002005	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298002005	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298002005	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298002005	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298002005	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298003105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298003105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298003105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298003105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298003105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298003105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298003105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298003105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298003105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298003105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298003105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298004105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298004105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298004105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298004105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298004105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298004105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298004105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298004105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298004105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298004105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298004105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298005205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4298005205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4298005205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4298005205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4298005205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4298005205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4298005205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4298005205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4298005205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4298005205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4298005205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4298006205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298006205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298006205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298006205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298006205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298006205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298006205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298006205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298006205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298006205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298006205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298007205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Self_Identified_Vulnerable	2
4298007205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Self_Identified_Vulnerable	2
4298007205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Self_Identified_Vulnerable	2
4298007205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Self_Identified_Vulnerable	2
4298007205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Self_Identified_Vulnerable	2
4298007205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Self_Identified_Vulnerable	2
4298007205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Self_Identified_Vulnerable	2
4298007205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Self_Identified_Vulnerable	2
4298007205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
4298007205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Self_Identified_Vulnerable	2
4298007205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Self_Identified_Vulnerable	2
4298008305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298008305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298008305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298008305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298008305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298008305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298008305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298008305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298008305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298008305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298008305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298009305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298009305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298009305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298009305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298009305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298009305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298009305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298009305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298009305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298009305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298009305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298010405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4298010405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4298010405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4298010405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4298010405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4298010405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4298010405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4298010405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4298010405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4298010405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4298010405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4298011405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298011405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298011405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298011405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298011405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298011405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298011405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298011405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298011405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298011405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298011405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298012505	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298012505	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298012505	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298012505	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298012505	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298012505	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298012505	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298012505	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298012505	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298012505	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298012505	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298013510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298013510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298013510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298013510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298013510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298013510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298013510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298013510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298013510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298013510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298013510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298014510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298014510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298014510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298014510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298014510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298014510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298014510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298014510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298014510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298014510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298014510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298015605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4298015605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4298015605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4298015605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4298015605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4298015605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4298015605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4298015605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
4298015605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
4298015605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4298015605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4298016610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4298016610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4298016610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4298016610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4298016610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4298016610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4298016610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4298016610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4298016610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4298016610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4298016610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4298017705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4298017705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4298017705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4298017705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4298017705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4298017705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4298017705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4298017705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4298017705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4298017705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4298017705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4298018705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298018705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298018705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298018705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298018705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298018705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298018705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298018705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298018705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298018705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298018705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298019805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298019805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298019805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298019805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298019805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298019805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298019805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298019805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298019805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298019805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298019805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298020810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298020810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298020810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298020810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298020810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298020810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298020810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298020810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298020810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1

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(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4298020810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298020810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298021810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298021810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298021810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298021810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298021810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298021810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298021810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298021810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298021810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298021810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298021810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298022905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298022905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298022905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298022905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298022905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298022905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298022905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298022905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298022905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298022905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298022905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4298023905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4298023905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4298023905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4298023905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4298023905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4298023905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4298023905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4298023905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4298023905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4298023905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4298023905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308161105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308161105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308161105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308161105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308161105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308161105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308161105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308161105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308161105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308161105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
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4308162105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308162105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308162105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308162105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308162105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308162105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308162105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308162105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308162105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308162105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308162105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308163205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308163205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308163205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308163205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308163205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308163205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308163205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308163205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308163205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308163205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308163205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308164205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308164205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308164205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308164205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308164205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308164205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308164205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308164205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308164205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308164205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308164205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308165205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Medical_Baseline_Low_Income	5
4308165205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Medical_Baseline_Low_Income	5
4308165205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Medical_Baseline_Low_Income	5
4308165205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Medical_Baseline_Low_Income	5
4308165205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Medical_Baseline_Low_Income	5
4308165205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Medical_Baseline_Low_Income	5
4308165205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Medical_Baseline_Low_Income	5
4308165205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Medical_Baseline_Low_Income	5
4308165205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline_Low_Income	5
4308165205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Medical_Baseline_Low_Income	5
4308165205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Medical_Baseline_Low_Income	5
4308166305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support_Low_Income	5
4308166305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support_Low_Income	5
4308166305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support_Low_Income	5
4308166305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support_Low_Income	5
4308166305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support_Low_Income	5
4308166305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support_Low_Income	5
4308166305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support_Low_Income	5
4308166305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support_Low_Income	5
4308166305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
4308166305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support_Low_Income	5
4308166305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support_Low_Income	5
4308167305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308167305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308167305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308167305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308167305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308167305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308167305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308167305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308167305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308167305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308167305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4308168410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308168410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308168410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308168410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308168410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308168410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308168410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308168410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308168410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308168410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308168410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308169410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308169410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308169410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308169410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308169410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308169410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308169410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308169410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308169410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308169410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308169410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308170510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308170510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308170510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308170510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
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4308170510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308170510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308170510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308170510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308170510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308171510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
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4308171510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308171510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308171510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308171510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308171510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308171510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308171510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
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4308172510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308172510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308172510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308172510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308172510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308172510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308172510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
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4308172510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308172510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
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4308173610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Low_Income	2
4308173610	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Low_Income	2
4308173610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Low_Income	2
4308173610	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Low_Income	2
4308173610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Low_Income	2
4308173610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Low_Income	2
4308173610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Low_Income	2
4308173610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Low_Income	2
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4308173610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Low_Income	2
4308173610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Low_Income	2
4308174610	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
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4308174610	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
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4308174610	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308174610	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308174610	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308174610	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308174610	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308174610	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308174610	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308175710	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308175710	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308175710	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308175710	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308175710	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308175710	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308175710	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308175710	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308175710	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308175710	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308175710	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308176705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	TT2	100
4308176705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	TT2	100
4308176705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	TT2	100
4308176705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	TT2	100
4308176705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	TT2	100
4308176705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	TT2	100
4308176705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	TT2	100
4308176705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	TT2	100
4308176705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT2	100
4308176705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	TT2	100
4308176705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	TT2	100
4308177810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308177810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308177810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308177810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308177810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308177810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308177810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308177810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308177810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308177810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308177810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308178810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308178810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4308178810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308178810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308178810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308178810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308178810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308178810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308178810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308178810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308178810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308179810	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308179810	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308179810	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308179810	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308179810	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308179810	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308179810	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308179810	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308179810	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308179810	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308179810	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308180910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308180910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308180910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308180910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308180910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308180910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308180910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308180910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308180910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308180910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308180910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308181910	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308181910	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308181910	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308181910	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308181910	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308181910	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308181910	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308181910	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308181910	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308181910	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308181910	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308183010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308183010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308183010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308183010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308183010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308183010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308183010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308183010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308183010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308183010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308183010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308184010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308184010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308184010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308184010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308184010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308184010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308184010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308184010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308184010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308184010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308184010	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308185105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308185105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308185105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308185105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308185105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308185105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308185105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308185105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308185105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308185105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308185105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308187105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308187105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308187105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308187105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308187105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308187105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308187105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308187105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308187105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308187105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308187105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308188205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308188205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308188205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308188205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308188205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308188205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308188205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308188205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308188205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308188205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308188205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308189205	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308189205	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308189205	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308189205	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308189205	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308189205	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308189205	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308189205	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308189205	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308189205	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308189205	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308190305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308190305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308190305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308190305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1

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PSPS Toy Problem Calculations
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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4308190305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308190305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308190305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308190305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308190305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308190305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308190305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308191305	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308191305	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308191305	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308191305	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308191305	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308191305	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308191305	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308191305	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308191305	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308191305	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308191305	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308192405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308192405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308192405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308192405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308192405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308192405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308192405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308192405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308192405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308192405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308192405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308193405	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Life_Support	5
4308193405	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Life_Support	5
4308193405	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Life_Support	5
4308193405	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Life_Support	5
4308193405	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Life_Support	5
4308193405	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Life_Support	5
4308193405	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Life_Support	5
4308193405	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Life_Support	5
4308193405	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
4308193405	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Life_Support	5
4308193405	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Life_Support	5
4308194410	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308194410	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308194410	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308194410	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308194410	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308194410	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308194410	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308194410	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308194410	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308194410	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308194410	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308195510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308195510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308195510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308195510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308195510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308195510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308195510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308195510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308195510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308195510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308195510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308196510	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
4308196510	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
4308196510	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
4308196510	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
4308196510	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
4308196510	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
4308196510	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
4308196510	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
4308196510	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4308196510	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
4308196510	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
4308197605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4308197605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4308197605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4308197605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4308197605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4308197605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4308197605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4308197605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4308197605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4308197605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4308197605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4308199705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4308199705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4308199705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4308199705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4308199705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4308199705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4308199705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4308199705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4308199705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4308199705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4308199705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4308200705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4308200705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4308200705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4308200705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4308200705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4308200705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4308200705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4308200705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4308200705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4308200705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4308200705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4308201705	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4308201705	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4308201705	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4308201705	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4308201705	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4308201705	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4308201705	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4308201705	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4308201705	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4308201705	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4308201705	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4308203805	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4308203805	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4308203805	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4308203805	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4308203805	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4308203805	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4308203805	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4308203805	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4308203805	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4308203805	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4308203805	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4308205905	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4308205905	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4308205905	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4308205905	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4308205905	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4308205905	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4308205905	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4308205905	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4308205905	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4308205905	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4308205905	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4308207010	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4308207010	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4308207010	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4308207010	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4308207010	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4308207010	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4308207010	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4308207010	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4308207010	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4308207010	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
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4336005605	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
4336005605	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
4336005605	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
4336005605	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
4336005605	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
4336005605	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
4336005605	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
4336005605	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
4336005605	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4336005605	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
4336005605	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
4405232711	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	TT1	100
4405232711	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	TT1	100
4405232711	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	TT1	100
4405232711	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	TT1	100
4405232711	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	TT1	100
4405232711	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	TT1	100
4405232711	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	TT1	100
4405232711	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	TT1	100
4405232711	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT1	100
4405232711	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	TT1	100
4405232711	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	TT1	100
5120678478	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
5120678478	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
5120678478	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
5120678478	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
5120678478	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
5120678478	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
5120678478	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
5120678478	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
5120678478	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
5120678478	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
5120678478	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
5161935426	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	TT1	100
5161935426	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	TT1	100
5161935426	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	TT1	100
5161935426	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	TT1	100
5161935426	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	TT1	100
5161935426	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	TT1	100
5161935426	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	TT1	100
5161935426	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	TT1	100
5161935426	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT1	100
5161935426	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	TT1	100
5161935426	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	TT1	100
5350959417	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
5350959417	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
5350959417	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
5350959417	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
5350959417	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
5350959417	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
5350959417	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
5350959417	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
5350959417	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
5350959417	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
5350959417	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
6137701012	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
6137701012	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
6137701012	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
6137701012	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
6137701012	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
6137701012	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
6137701012	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
6137701012	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
6137701012	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
6137701012	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
6137701012	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
6295049403	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	CC2	2
6295049403	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	CC2	2
6295049403	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	CC2	2
6295049403	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	CC2	2
6295049403	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	CC2	2
6295049403	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	CC2	2
6295049403	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	CC2	2
6295049403	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	CC2	2

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
6295049403	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	CC2	2
6295049403	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	CC2	2
6295049403	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	CC2	2
6829419526	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
6829419526	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
6829419526	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
6829419526	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
6829419526	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
6829419526	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
6829419526	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
6829419526	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
6829419526	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
6829419526	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
6829419526	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
7442960475	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
7442960475	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
7442960475	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
7442960475	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
7442960475	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
7442960475	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
7442960475	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
7442960475	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
7442960475	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
7442960475	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
7442960475	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
7543457105	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	CC2	2
7543457105	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	CC2	2
7543457105	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	CC2	2
7543457105	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	CC2	2
7543457105	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	CC2	2
7543457105	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	CC2	2
7543457105	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	CC2	2
7543457105	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	CC2	2
7543457105	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	CC2	2
7543457105	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	CC2	2
7543457105	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	CC2	2
7610165969	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
7610165969	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
7610165969	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
7610165969	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
7610165969	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
7610165969	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
7610165969	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
7610165969	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
7610165969	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
7610165969	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
7610165969	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
7901427137	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
7901427137	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
7901427137	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
7901427137	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
7901427137	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
7901427137	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
7901427137	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
7901427137	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
7901427137	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
7901427137	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
7901427137	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
7917495587	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
7917495587	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
7917495587	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
7917495587	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
7917495587	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
7917495587	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
7917495587	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
7917495587	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
7917495587	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
7917495587	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
7917495587	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
8466022073	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
8466022073	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
8466022073	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
8466022073	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
8466022073	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
8466022073	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
8466022073	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
8466022073	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
8466022073	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
8466022073	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
8466022073	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
8814799685	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
8814799685	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
8814799685	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
8814799685	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
8814799685	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
8814799685	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
8814799685	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
8814799685	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
8814799685	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
8814799685	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
8814799685	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
8846384978	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
8846384978	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
8846384978	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
8846384978	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
8846384978	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
8846384978	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
8846384978	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
8846384978	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
8846384978	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
8846384978	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
8846384978	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
8892431755	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	CC2	2
8892431755	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	CC2	2
8892431755	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	CC2	2
8892431755	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	CC2	2
8892431755	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	CC2	2
8892431755	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	CC2	2
8892431755	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	CC2	2
8892431755	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	CC2	2
8892431755	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	CC2	2
8892431755	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	CC2	2

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
8892431755	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	CC2	2
8950038003	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
8950038003	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
8950038003	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
8950038003	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
8950038003	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
8950038003	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
8950038003	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
8950038003	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
8950038003	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
8950038003	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
8950038003	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
8978001427	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
8978001427	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
8978001427	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
8978001427	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
8978001427	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
8978001427	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
8978001427	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
8978001427	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
8978001427	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
8978001427	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
8978001427	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
9005515199	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
9005515199	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
9005515199	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
9005515199	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
9005515199	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
9005515199	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
9005515199	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
9005515199	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
9005515199	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
9005515199	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
9005515199	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
9133597206	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
9133597206	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
9133597206	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
9133597206	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
9133597206	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
9133597206	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
9133597206	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
9133597206	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
9133597206	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
9133597206	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
9133597206	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1
9215366061	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	RES	Regular Customer	1
9215366061	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	RES	Regular Customer	1
9215366061	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	RES	Regular Customer	1
9215366061	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	RES	Regular Customer	1
9215366061	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	RES	Regular Customer	1
9215366061	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	RES	Regular Customer	1
9215366061	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	RES	Regular Customer	1
9215366061	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	RES	Regular Customer	1
9215366061	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
9215366061	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	RES	Regular Customer	1
9215366061	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	RES	Regular Customer	1
9324968110	VACAVILLE 11046542	06242018_2024Q4LB	6/24/2018	17.5	Non-RES	Regular Customer	1
9324968110	VACAVILLE 11046542	09072020_2024Q4LB	9/8/2020	37.5	Non-RES	Regular Customer	1
9324968110	VACAVILLE 11046542	10092019_2024Q4LB	10/10/2019	26.5	Non-RES	Regular Customer	1
9324968110	VACAVILLE 11046542	10112021_2024Q4LB	10/11/2021	24.5	Non-RES	Regular Customer	1
9324968110	VACAVILLE 11046542	10132018_2024Q4LB	10/14/2018	35.5	Non-RES	Regular Customer	1
9324968110	VACAVILLE 11046542	10172024_2024Q4LB	10/18/2024	52.5	Non-RES	Regular Customer	1
9324968110	VACAVILLE 11046542	10252020_2024Q4LB	10/26/2020	27.5	Non-RES	Regular Customer	1
9324968110	VACAVILLE 11046542	10262019_2024Q4LB	10/27/2019	36.5	Non-RES	Regular Customer	1
9324968110	VACAVILLE 11046542	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
9324968110	VACAVILLE 11046542	11052024_2024Q4LB	11/6/2024	43.5	Non-RES	Regular Customer	1
9324968110	VACAVILLE 11046542	11072018_2024Q4LB	11/8/2018	34.5	Non-RES	Regular Customer	1

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Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Event Totals

wdrm_v4_cs_name	event_name	count_spids_of_event_on_cs	cmi_of_event_on_cs	unscaled_cost_of_event_on_cs
VACAVILLE 11046542	10172024_2024Q4LB	787	2,479,050	$ 6,974,171.34
VACAVILLE 11046542	11052024_2024Q4LB	787	2,054,070	$ 5,778,599.11
VACAVILLE 11046542	09072020_2024Q4LB	786	1,768,500	$ 4,981,668.64
VACAVILLE 11046542	10262019_2024Q4LB	786	1,721,340	$ 4,848,824.14
VACAVILLE 11046542	10132018_2024Q4LB	786	1,674,180	$ 4,715,979.64
VACAVILLE 11046542	11072018_2024Q4LB	787	1,629,090	$ 4,582,999.81
VACAVILLE 11046542	10252020_2024Q4LB	787	1,298,550	$ 3,653,115.79
VACAVILLE 11046542	10292019_2024Q4LB	786	1,249,740	$ 3,520,379.17
VACAVILLE 11046542	10092019_2024Q4LB	787	1,251,330	$ 3,520,285.61
VACAVILLE 11046542	10112021_2024Q4LB	786	1,155,420	$ 3,254,690.18
VACAVILLE 11046542	06242018_2024Q4LB	787	826,350	$ 2,324,716.91

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Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Distribution (Coefficients)

direction	selected_cs	related_cs	event_name	ancestors_in_event	to_this_cs_intersection_hftd_hfra_length_miles	arr_sum_intersected_hftdhfra_miles	miles_weighted_coefficient	cs_risk_by_coefficient	cs_CMI_by_coefficient	annual_risk_for_event	annual_cmi_for_event
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	06242018_2024Q4LB	[VACAVILLE 11046542]	0.32069175	0.32069175	1	$ 2,324,716.91	826,350	$ 332,102.42	118,050
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	09072020_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.26654643	12.18529238	0.924602059	$ 4,606,061.08	1,635,159	$ 658,008.73	233,594
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104196294	09072020_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.480421111	12.18529238	0.03942631	$ 196,408.81	69,725	$ 28,058.40	9,961
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104CB	09072020_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.438324846	12.18529238	0.035971631	$ 179,198.75	63,616	$ 25,599.82	9,088
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10092019_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	8.371841153	9.29058711	0.901110022	$ 3,172,164.64	1,127,586	$ 453,166.38	161,084
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104196294	10092019_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.480421111	9.29058711	0.051710522	$ 182,035.81	64,707	$ 26,005.12	9,244
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104CB	10092019_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.438324846	9.29058711	0.047179456	$ 166,085.16	59,037	$ 23,726.45	8,434
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10112021_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.55075736	12.46950331	0.926320565	$ 3,014,886.44	1,070,289	$ 430,698.06	152,898
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104196294	10112021_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.480421111	12.46950331	0.038527686	$ 125,395.68	44,516	$ 17,913.67	6,359
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104CB	10112021_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.438324846	12.46950331	0.035151749	$ 114,408.05	40,615	$ 16,344.01	5,802
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10132018_2024Q4LB	[VACAVILLE 11046542]	1.406774605	1.406774605	1	$ 4,715,979.64	1,674,180	$ 673,711.38	239,169
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10172024_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.2124525	12.13119845	0.924265854	$ 6,445,988.42	2,291,301	$ 920,855.49	327,329
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104196294	10172024_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.480421111	12.13119845	0.039602115	$ 276,191.93	98,176	$ 39,455.99	14,025
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104CB	10172024_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.438324846	12.13119845	0.036132032	$ 251,990.98	89,573	$ 35,998.71	12,796
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10252020_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294]	6.144782938	6.187140459	0.993153942	$ 3,628,106.35	1,289,660	$ 518,300.91	184,237
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104196294	10252020_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294]	0.042357522	6.187140459	0.006846058	$ 25,009.44	8,890	$ 3,572.78	1,270
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10262019_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.55075736	12.46950331	0.926320565	$ 4,491,565.52	1,594,513	$ 641,652.22	227,788
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104196294	10262019_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.480421111	12.46950331	0.038527686	$ 186,813.97	66,319	$ 26,687.71	9,474
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104CB	10262019_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.438324846	12.46950331	0.035151749	$ 170,444.65	60,508	$ 24,349.24	8,644
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10292019_2024Q4LB	[VACAVILLE 11046542]	1.908990099	1.908990099	1	$ 3,520,379.17	1,249,740	$ 502,911.31	178,534
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	11052024_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.2124525	12.13119845	0.924265854	$ 5,340,961.84	1,898,507	$ 762,994.55	271,215
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104196294	11052024_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.480421111	12.13119845	0.039602115	$ 228,844.74	81,346	$ 32,692.11	11,621
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104CB	11052024_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.438324846	12.13119845	0.036132032	$ 208,792.53	74,218	$ 29,827.50	10,603
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	11072018_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.37986703	12.29861298	0.925296783	$ 4,240,634.98	1,507,392	$ 605,805.00	215,342
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104196294	11072018_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.480421111	12.29861298	0.039063032	$ 179,025.87	63,637	$ 25,575.12	9,091
FROM_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104CB	11072018_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	0.438324846	12.29861298	0.035640185	$ 163,338.96	58,061	$ 23,334.14	8,294
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	06242018_2024Q4LB	[VACAVILLE 11046542]	0.32069175	0.32069175	1	$ 2,324,716.91	826,350	$ 332,102.42	118,050
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104293462	06242018_2024Q4LB	[VACAVILLE 1104293462, VACAVILLE 11046542]	0.32069175	0.393254593	0.815481255	$ 1,684.34	5,994	$ 240.62	856
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	09072020_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.26654643	12.18529238	0.924602059	$ 4,606,061.08	1,635,159	$ 658,008.73	233,594
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104293462	09072020_2024Q4LB	[VACAVILLE 1104293462, VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.26654643	13.24378896	0.850704165	$ 3,765.20	13,399	$ 537.89	1,914
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10092019_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	8.371841153	9.29058711	0.901110022	$ 3,172,164.64	1,127,586	$ 453,166.38	161,084
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104293462	10092019_2024Q4LB	[VACAVILLE 1104293462, VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	8.371841153	10.34908369	0.80894516	$ 2,530.14	9,004	$ 361.45	1,286
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10112021_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.55075736	12.46950331	0.926320565	$ 3,014,886.44	1,070,289	$ 430,698.06	152,898
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104293462	10112021_2024Q4LB	[VACAVILLE 1104293462, VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.55075736	13.52799989	0.853840734	$ 2,469.00	8,786	$ 352.71	1,255
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10132018_2024Q4LB	[VACAVILLE 11046542]	1.406774605	1.406774605	1	$ 4,715,979.64	1,674,180	$ 673,711.38	239,169
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104293462	10132018_2024Q4LB	[VACAVILLE 11046542]	1.406774605	1.406774605	1	$ 4,189.93	14,910	$ 598.56	2,130
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10172024_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.2124525	12.13119845	0.924265854	$ 6,445,988.42	2,291,301	$ 920,855.49	327,329
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104293462	10172024_2024Q4LB	[VACAVILLE 1104293462, VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.2124525	13.18969503	0.850091869	$ 5,285.00	18,745	$ 755.00	2,678
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10252020_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294]	6.144782938	6.187140459	0.993153942	$ 3,628,106.35	1,289,660	$ 518,300.91	184,237
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104293462	10252020_2024Q4LB	[VACAVILLE 1104293462, VACAVILLE 11046542, VACAVILLE 1104196294]	6.144782938	7.245637036	0.848066624	$ 2,752.59	9,795	$ 393.23	1,399
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10262019_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.55075736	12.46950331	0.926320565	$ 4,491,565.52	1,594,513	$ 641,652.22	227,788
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104293462	10262019_2024Q4LB	[VACAVILLE 1104293462, VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.55075736	13.52799989	0.853840734	$ 3,678.31	13,089	$ 525.47	1,870
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	10292019_2024Q4LB	[VACAVILLE 11046542]	1.908990099	1.908990099	1	$ 3,520,379.17	1,249,740	$ 502,911.31	178,534
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	11052024_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.2124525	12.13119845	0.924265854	$ 5,340,961.84	1,898,507	$ 762,994.55	271,215
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 11046542	11072018_2024Q4LB	[VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.37986703	12.29861298	0.925296783	$ 4,240,634.98	1,507,392	$ 605,805.00	215,342
TO_THIS_CS	VACAVILLE 11046542	VACAVILLE 1104293462	11072018_2024Q4LB	[VACAVILLE 1104293462, VACAVILLE 11046542, VACAVILLE 1104196294, VACAVILLE 1104CB]	11.37986703	13.35710956	0.851970778	$ 3,469.15	12,345	$ 495.59	1,764

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Electrical Undergrounding Program
PSPS Toy Problem Calculations
High Risk Final Circuit Segment Risk

direction	wdrm_v4_cs_name	annual_psps_risk_unscaled	annual_psps_CMI
TO_THIS_CS	VACAVILLE 11046542	$ 6,505,539.34	2,328,201

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Electrical Undergrounding Program
PSPS Toy Problem Calculations
Medium Risk Base SPID Events

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
260363204	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
260363204	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
260363204	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
260363204	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
260363204	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
260363204	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
260363204	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
314347297	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
314347297	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
314347297	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
314347297	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
314347297	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
314347297	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
314347297	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
369999811	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
369999811	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
369999811	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
369999811	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
369999811	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
369999811	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
369999811	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
441035628	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
441035628	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
441035628	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
441035628	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
441035628	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
441035628	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
441035628	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
478528329	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
478528329	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
478528329	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
478528329	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
478528329	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
478528329	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
478528329	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
488356913	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Self_Identified_Vulnerable	2
488356913	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
488356913	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Self_Identified_Vulnerable	2
488356913	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Self_Identified_Vulnerable	2
488356913	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Self_Identified_Vulnerable	2
488356913	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Self_Identified_Vulnerable	2
488356913	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
796639610	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
796639610	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
796639610	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
796639610	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
796639610	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
796639610	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
796639610	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
988116474	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
988116474	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
988116474	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
988116474	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
988116474	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
988116474	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
988116474	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
992457241	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
992457241	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
992457241	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
992457241	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
992457241	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
992457241	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
992457241	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1043711039	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1043711039	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1043711039	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1043711039	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1043711039	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1043711039	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1043711039	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1057616721	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1057616721	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1057616721	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1057616721	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1057616721	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1057616721	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1057616721	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1062214591	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	TT1	100
1062214591	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	TT1	100
1062214591	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	TT1	100
1062214591	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	TT1	100
1062214591	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	TT1	100
1062214591	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	TT1	100
1062214591	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT1	100
1079667505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1079667505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1079667505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1079667505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1079667505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1079667505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1079667505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1079668505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1079668505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1079668505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1079668505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1079668505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1079668505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1079668505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100475805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100475805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100475805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100475805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100475805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100475805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100475805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100476805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1100476805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100476805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100476805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100476805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100476805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100476805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100477905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support	5
1100477905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support	5
1100477905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support	5
1100477905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support	5
1100477905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support	5
1100477905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
1100478905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100478905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100478905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100478905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100478905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100478905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100478905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100480005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100480005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100480005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100480005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100480005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100480005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100480005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100481005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100481005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100481005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100481005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100481005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100481005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100481005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100482005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100482005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100482005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100482005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100482005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100482005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100482005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100483105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100483105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100483105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100483105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100483105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100483105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100483105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100484105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100484105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100484105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100484105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100484105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100484105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100484105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100485210	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100485210	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100485210	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100485210	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100485210	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100485210	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100485210	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100486205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100486205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100486205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100486205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100486205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100486205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100486205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100487305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100487305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100487305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100487305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100487305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100487305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100487305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100488305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100488305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100488305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100488305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100488305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100488305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100488305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100490405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100490405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100490405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100490405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100490405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100490405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100490405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100491405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support_Low_Income	5
1100491405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support_Low_Income	5
1100491405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support_Low_Income	5
1100491405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support_Low_Income	5
1100491405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support_Low_Income	5
1100491405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support_Low_Income	5
1100491405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
1100492505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100492505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100492505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100492505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100492505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100492505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100492505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100498705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100498705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100498705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100498705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100498705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100498705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100498705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100500805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100500805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1100500805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100500805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100500805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100500805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100500805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100501905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100501905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100501905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100501905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100501905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100501905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100502905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100502905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100502905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100502905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100502905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100502905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100502905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100503905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100503905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100503905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100503905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100503905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100503905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100503905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100505005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100505005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100505005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100505005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100505005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100505005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100505005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100506005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100506005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Self_Identified_Vulnerable	2
1100506005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100506005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100506005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100506005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100506005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100508105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100508105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100508105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100508105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100508105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100508105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100508105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100509205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100509205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100509205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100509205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100509205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100509205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100509205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100510205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100510205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100510205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100510205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100510205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100510205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100510205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100511205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100511205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100511205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100511205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100511205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100511205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100511205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100512305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100512305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100512305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100512305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100512305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100512305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100512305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100513305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100513305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100513305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100513305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100513305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100513305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100513305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100514405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100514405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100514405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100514405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100514405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100514405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100514405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100515405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100515405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100515405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100515405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100515405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100515405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100515405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100516505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100516505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100516505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100516505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100516505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100516505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100516505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100517505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100517505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100517505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100517505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100517505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100517505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100517505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100518505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100518505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100518505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
Medium Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1100518505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100518505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100518505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100518505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100519605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100519605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100519605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100519605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100519605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100519605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100519605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100520605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100520605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100520605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100520605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100520605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100520605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100520605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100521705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100521705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100521705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100521705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100521705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100521705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100521705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100522705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100522705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100522705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100522705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100522705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100522705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100522705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100523805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100523805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100523805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100523805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100523805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100523805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100523805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100524805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100524805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100524805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100524805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100524805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100524805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100524805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100525805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100525805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100525805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100525805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100525805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100525805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100525805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100526905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100526905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100526905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100526905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100526905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100526905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100526905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100527905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100527905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
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1100527905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100527905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100527905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
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1100529005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100529005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100529005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100529005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100529005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100529005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100529005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100530005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100530005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100530005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100530005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100530005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100530005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100530005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100531105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100531105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100531105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100531105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100531105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100531105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100531105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100532105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100532105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100532105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100532105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100532105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100532105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100532105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100533105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100533105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100533105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100533105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100533105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100533105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100533105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100534205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support	5
1100534205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100534205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support	5
1100534205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support	5
1100534205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support	5
1100534205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support	5
1100534205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
1100535205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support_Low_Income	5
1100535205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support_Low_Income	5
1100535205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support_Low_Income	5

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1100535205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support_Low_Income	5
1100535205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support_Low_Income	5
1100535205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support_Low_Income	5
1100535205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
1100536305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100536305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100536305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100536305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100536305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100536305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100536305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100537305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100537305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100537305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100537305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100537305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100537305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100537305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100538405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1100538405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1100538405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1100538405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1100538405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1100538405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1100538405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1100539405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100539405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100539405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100539405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100539405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100539405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100539405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1100540405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1100540405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1100540405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1100540405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1100540405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1100540405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1100540405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110678605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110678605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110678605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110678605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110678605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110678605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110678605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110679705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Self_Identified_Vulnerable	2
1110679705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Self_Identified_Vulnerable	2
1110679705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Self_Identified_Vulnerable	2
1110679705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Self_Identified_Vulnerable	2
1110679705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Self_Identified_Vulnerable	2
1110679705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Self_Identified_Vulnerable	2
1110679705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
1110680705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110680705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110680705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110680705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110680705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110680705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110680705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110681805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110681805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110681805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110681805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110681805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110681805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110681805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110682805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Medical_Baseline	2
1110682805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Medical_Baseline	2
1110682805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Medical_Baseline	2
1110682805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Medical_Baseline	2
1110682805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Medical_Baseline	2
1110682805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Medical_Baseline	2
1110682805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline	2
1110683805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110683805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110683805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110683805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110683805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110683805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110683805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110684905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110684905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110684905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110684905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110684905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110684905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110684905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110685905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110685905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110685905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110685905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110685905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110685905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110685905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110687005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Medical_Baseline_Low_Income	5
1110687005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Medical_Baseline_Low_Income	5
1110687005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Medical_Baseline_Low_Income	5
1110687005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Medical_Baseline_Low_Income	5
1110687005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Medical_Baseline_Low_Income	5
1110687005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Medical_Baseline_Low_Income	5
1110687005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline_Low_Income	5
1110689105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110689105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110689105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110689105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110689105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110689105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110689105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110690105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110690105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110690105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1110690105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110690105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110690105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110690105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110691205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110691205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110691205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110691205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110691205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110691205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110691205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110692205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110692205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110692205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110692205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110692205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110692205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110692205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110693205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110693205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110693205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110693205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110693205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110693205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110693205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110694305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110694305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110694305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110694305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110694305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110694305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110694305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110695305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110695305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110695305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110695305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110695305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110695305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110695305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110696405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110696405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110696405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110696405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110696405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110696405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110696405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110697405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110697405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110697405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110697405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110697405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110697405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110697405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110698505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110698505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110698505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110698505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110698505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110698505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110698505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110699505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110699505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110699505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110699505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110699505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110699505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110699505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110700505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110700505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110700505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110700505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110700505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110700505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110700505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110701605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110701605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110701605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110701605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110701605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110701605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110701605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110702605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110702605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110702605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110702605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110702605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110702605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110702605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110703705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110703705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110703705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110703705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110703705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110703705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110703705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110704705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110704705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110704705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110704705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110704705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110704705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110704705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110705805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110705805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110705805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110705805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110705805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110705805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110705805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110706805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110706805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110706805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1110706805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110706805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110706805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110706805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110707805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Medical_Baseline	2
1110707805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Medical_Baseline	2
1110707805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Medical_Baseline	2
1110707805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Medical_Baseline	2
1110707805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Medical_Baseline	2
1110707805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Medical_Baseline	2
1110707805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline	2
1110708905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110708905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110708905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110708905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110708905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110708905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110708905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110711005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110711005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110711005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110711005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110711005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110711005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110711005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110712005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110712005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110712005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110712005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110712005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110712005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110712005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110713105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110713105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110713105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110713105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110713105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110713105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110713105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110716205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	TT2	100
1110716205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	TT2	100
1110716205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	TT2	100
1110716205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	TT2	100
1110716205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	TT2	100
1110716205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	TT2	100
1110716205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT2	100
1110717205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110717205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110717205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110717205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110717205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110717205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110717205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110718305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110718305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110718305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110718305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110718305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110718305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110718305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110719305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110719305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110719305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110719305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110719305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110719305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110719305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110720405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110720405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110720405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110720405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110720405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110720405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110720405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110721410	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110721410	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110721410	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110721410	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110721410	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110721410	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110721410	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110722405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110722405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110722405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110722405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110722405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110722405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110722405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110723505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110723505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110723505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110723505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110723505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110723505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110723505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110724505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110724505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110724505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110724505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110724505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110724505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110724505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110725605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110725605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110725605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110725605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110725605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110725605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110725605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110726605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110726605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110726605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
Medium Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1110726605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110726605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110726605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110726605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110727705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110727705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110727705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110727705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110727705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110727705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110727705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110728705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110728705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110728705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110728705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110728705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110728705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110728705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110729705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110729705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110729705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110729705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110729705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
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1110730805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
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1110730805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110730805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
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1110731805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110731805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
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1110731805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
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1110732905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
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1110733910	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
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1110735005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
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1110735005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
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1110736005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
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1110738105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
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1110741210	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110741210	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
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1110742305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
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1110744305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
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1110745405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110745405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
Medium Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
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1110745405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110745405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
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1110746405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
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1110746405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
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1110757905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110757905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110757905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110757905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110758905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110758905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110758905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110758905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110758905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110758905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110758905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110760005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110760005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110760005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110760005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110760005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110760005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110760005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110761005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110761005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110761005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110761005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110761005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110761005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110761005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110763105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110763105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110763105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110763105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1110763105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110763105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110763105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110764205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110764205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110764205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110764205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110764205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110764205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110764205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110765205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110765205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110765205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110765205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110765205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110765205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110765205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110766205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110766205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110766205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110766205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110766205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110766205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110766205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110767305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110767305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110767305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110767305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110767305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110767305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110767305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110768305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110768305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110768305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110768305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110768305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110768305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110768305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110769405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110769405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110769405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110769405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110769405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110769405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110770405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110770405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110770405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110770405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110770405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110770405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110770405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110771505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110771505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110771505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110771505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110771505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110771505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110771505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110772505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110772505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110772505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110772505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110772505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110772505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110772505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110773505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110773505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110773505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110773505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110773505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110773505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110773505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110774605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110774605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110774605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110774605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110774605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110774605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110774605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110775605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110775605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110775605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110775605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110775605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110775605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110775605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110776705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110776705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110776705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110776705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110776705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110776705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110776705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110777772	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110777772	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110777772	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110777772	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110777772	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110777772	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110777772	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110779805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110779805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110779805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110779805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110779805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110779805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110779805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110780805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110780805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110780805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110780805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110780805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1110780805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110780805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110781910	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110781910	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110781910	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110781910	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110781910	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110781910	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110781910	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110784005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110784005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110784005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110784005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110784005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110784005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110784005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110785005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110785005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110785005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110785005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110785005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110785005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110785005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110786105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	CC3	2
1110786105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	CC3	2
1110786105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	CC3	2
1110786105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	CC3	2
1110786105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	CC3	2
1110786105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	CC3	2
1110786105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	CC3	2
1110787105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	CC3	2
1110787105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	CC3	2
1110787105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	CC3	2
1110787105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	CC3	2
1110787105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	CC3	2
1110787105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	CC3	2
1110787105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	CC3	2
1110788105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110788105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110788105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110788105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110788105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110788105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110788105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110789205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	CC3	2
1110789205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	CC3	2
1110789205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	CC3	2
1110789205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	CC3	2
1110789205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	CC3	2
1110789205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	CC3	2
1110789205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	CC3	2
1110790205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110790205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110790205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110790205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110790205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110790205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110790205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110791305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110791305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110791305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110791305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110791305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110791305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110791305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110792305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110792305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110792305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110792305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110792305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110792305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110792305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110793405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110793405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110793405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110793405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110793405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110793405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110793405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110794405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	TT2	100
1110794405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	TT2	100
1110794405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	TT2	100
1110794405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	TT2	100
1110794405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	TT2	100
1110794405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	TT2	100
1110794405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT2	100
1110795505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110795505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110795505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110795505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110795505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110795505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110795505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110796510	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110796510	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110796510	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110796510	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110796510	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110796510	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110796510	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110797505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110797505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110797505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110797505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110797505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110797505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110797505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110798605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110798605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110798605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110798605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110798605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1110798605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110798605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110799605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110799605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110799605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110799605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110799605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110799605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110799605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110800705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110800705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110800705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110800705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110800705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110800705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110800705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110801705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110801705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110801705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110801705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110801705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110801705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110801705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110802805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110802805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110802805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110802805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110802805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110802805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
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1110803805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110803805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110803805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110803805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110803805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110803805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110803805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
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1110804805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110804805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110804805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110804805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110804805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
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1110805905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110805905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110805905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110805905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110805905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110805905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110805905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110806905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110806905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110806905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
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1110806905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110806905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110806905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110809005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110809005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
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1110809005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
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1110809005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110809005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110810110	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110810110	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
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1110810110	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110811105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110811105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
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1110811105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
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1110812110	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110812110	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110812110	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110812110	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110812110	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
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1110813205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110813205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110813205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110813205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110813205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110813205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110814205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110814205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
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1110814205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110814205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110814205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
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1110815305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
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1110816305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110816305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
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1110816305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1

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(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1110816305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110816305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110818405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110818405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110818405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110818405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110818405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110818405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110818405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110820510	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110820510	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110820510	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110820510	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110820510	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110820510	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110820510	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110821505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110821505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110821505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110821505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110821505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110821505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110821505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110822608	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110822608	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110822608	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110822608	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110822608	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110822608	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110822608	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110823689	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110823689	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110823689	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110823689	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110823689	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110823689	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110823689	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110824705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110824705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110824705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110824705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110824705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110824705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110824705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110825705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110825705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110825705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110825705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110825705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110825705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110825705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110826705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110826705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110826705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110826705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110826705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110826705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110826705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110827805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110827805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110827805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110827805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110827805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110827805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110827805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110828805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110828805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110828805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110828805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110828805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110828805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110828805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110829905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110829905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110829905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110829905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110829905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110829905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110829905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110830905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110830905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110830905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110830905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110830905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110830905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110830905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110832005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110832005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110832005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110832005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110832005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110832005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110832005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110833005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110833005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110833005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110833005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110833005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110833005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110833005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110834005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110834005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110834005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110834005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110834005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110834005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110834005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110835110	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110835110	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110835110	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110835110	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110835110	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
Medium Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1110835110	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110835110	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110836110	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support_Low_Income	5
1110836110	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support_Low_Income	5
1110836110	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support_Low_Income	5
1110836110	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support_Low_Income	5
1110836110	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support_Low_Income	5
1110836110	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support_Low_Income	5
1110836110	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
1110837205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110837205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110837205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110837205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110837205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110837205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110837205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110838205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110838205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110838205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110838205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110838205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110838205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110838205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110839305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110839305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110839305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110839305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110839305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110839305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110840305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110840305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110840305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110840305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110840305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110840305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110841305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110841305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110841305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110841305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110841305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110841305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110841305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110842405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Medical_Baseline_Low_Income	5
1110842405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Medical_Baseline_Low_Income	5
1110842405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Medical_Baseline_Low_Income	5
1110842405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Medical_Baseline_Low_Income	5
1110842405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Medical_Baseline_Low_Income	5
1110842405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Medical_Baseline_Low_Income	5
1110842405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Medical_Baseline_Low_Income	5
1110844505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110844505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110844505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110844505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110844505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110844505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110844505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110845505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110845505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110845505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110845505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110845505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110845505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110845505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110846605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110846605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110846605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110846605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110846605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110846605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110846605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110847610	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110847610	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110847610	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110847610	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110847610	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110847610	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110847610	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110848605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110848605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110848605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110848605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110848605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110848605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110848605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110849705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110849705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110849705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110849705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110849705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110849705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110849705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110850710	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110850710	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110850710	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110850710	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110850710	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110850710	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110850710	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110851810	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110851810	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110851810	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110851810	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110851810	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110851810	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110851810	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110852805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110852805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110852805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110852805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110852805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110852805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110852805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1110853905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110853905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110853905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110853905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110853905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110853905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110853905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110854905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110854905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110854905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110854905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110854905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110854905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110854905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110855905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110855905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110855905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110855905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110855905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110855905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110855905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110857005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110857005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110857005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110857005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110857005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110857005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110857005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110858010	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Self_Identified_Vulnerable	2
1110859105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110859105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110859105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110859105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110859105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110859105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110859105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110860105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110860105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110860105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110860105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110860105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110860105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110860105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110861205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110861205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110861205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110861205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110861205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110861205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110861205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110862205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110862205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110862205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110862205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110862205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110862205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110862205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110863205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Self_Identified_Vulnerable	2
1110863205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Self_Identified_Vulnerable	2
1110863205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Self_Identified_Vulnerable	2
1110863205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Self_Identified_Vulnerable	2
1110863205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Self_Identified_Vulnerable	2
1110863205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Self_Identified_Vulnerable	2
1110863205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
1110864305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Self_Identified_Vulnerable	2
1110864305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Self_Identified_Vulnerable	2
1110864305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Self_Identified_Vulnerable	2
1110864305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Self_Identified_Vulnerable	2
1110864305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Self_Identified_Vulnerable	2
1110864305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Self_Identified_Vulnerable	2
1110864305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
1110865305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support	5
1110865305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support	5
1110865305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support	5
1110865305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support	5
1110865305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support	5
1110865305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support	5
1110865305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
1110866405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110866405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110866405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110866405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110866405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110866405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110866405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110867405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support_Low_Income	5
1110867405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support_Low_Income	5
1110867405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support_Low_Income	5
1110867405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support_Low_Income	5
1110867405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support_Low_Income	5
1110867405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support_Low_Income	5
1110867405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
1110868506	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support	5
1110868506	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support	5
1110868506	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support	5
1110868506	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support	5
1110868506	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support	5
1110868506	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support	5
1110868506	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
1110869505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110869505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110869505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110869505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110869505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110869505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110869505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110870505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110870505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110870505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110870505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110870505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110870505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1110870505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110872605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110872605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110872605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110872605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110872605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110872605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110872605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110873705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110873705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110873705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110873705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110873705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110873705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110873705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110874705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support	5
1110874705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support	5
1110874705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support	5
1110874705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support	5
1110874705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support	5
1110874705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support	5
1110874705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
1110875805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support	5
1110875805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Self_Identified_Vulnerable	2
1110875805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support	5
1110875805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support	5
1110875805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support	5
1110875805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support	5
1110875805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
1110876805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110876805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110876805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110876805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110876805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110876805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110876805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110877805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110877805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110877805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110877805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110877805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110877805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110877805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110878905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110878905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110878905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110878905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110878905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110878905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110878905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110879905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110879905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110879905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110879905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110879905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110879905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110879905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110881005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110881005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110881005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110881005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110881005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110881005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110881005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110882005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110882005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110882005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110882005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110882005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110882005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110882005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110883105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110883105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110883105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110883105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110883105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110883105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110883105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110884110	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110884110	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110884110	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110884110	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110884110	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110884110	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110884110	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110885110	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110885110	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110885110	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110885110	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110885110	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110885110	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110885110	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110886210	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support_Low_Income	5
1110886210	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support_Low_Income	5
1110886210	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support_Low_Income	5
1110886210	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support_Low_Income	5
1110886210	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support_Low_Income	5
1110886210	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support_Low_Income	5
1110886210	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
1110887205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110887205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110887205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110887205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110887205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110887205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110887205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110888305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110888305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110888305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110888305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110888305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110888305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
Medium Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1110888305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110889305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	TT1	100
1110889305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	TT1	100
1110889305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	TT1	100
1110889305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	TT1	100
1110889305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	TT1	100
1110889305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	TT1	100
1110889305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT1	100
1110890405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support	5
1110890405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support	5
1110890405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support	5
1110890405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support	5
1110890405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support	5
1110890405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support	5
1110890405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
1110891405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110891405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110891405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110891405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110891405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110891405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110891405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110892405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support_Low_Income	5
1110892405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support_Low_Income	5
1110892405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support_Low_Income	5
1110892405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support_Low_Income	5
1110892405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support_Low_Income	5
1110892405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support_Low_Income	5
1110892405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
1110893505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110893505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110893505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110893505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110893505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110893505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
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1110894505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Medical_Baseline_Low_Income	5
1110894505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Medical_Baseline_Low_Income	5
1110894505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Medical_Baseline_Low_Income	5
1110894505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Medical_Baseline_Low_Income	5
1110894505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Medical_Baseline_Low_Income	5
1110894505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Medical_Baseline_Low_Income	5
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1110895605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110895605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110895605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110895605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110895605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110895605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110895605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110896605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110896605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110896605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110896605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110896605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110896605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110896605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1110897705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1110897705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110897705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110897705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110897705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
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1110897705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110898710	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110898710	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110898710	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110898710	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110898710	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110898710	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110898710	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110900805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110900805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110900805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110900805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110900805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110900805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1110900805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
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1110902905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
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1110902905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110902905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110902905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
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1110903905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
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1110903905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
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1110905005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1110905005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
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1110905005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110905005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
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1110906005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1110906005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1110906005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1110906005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1110906005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1110907105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1110907105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1110907105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1110907105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1110907105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1110907105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1110907105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1110908105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1110908105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1110908105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1110908105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1110908105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1110908105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1110908105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1118637195	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1118637195	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1118637195	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1118637195	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1118637195	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1118637195	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1118637195	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1119242528	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1119242528	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1119242528	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1119242528	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1119242528	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1119242528	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1119242528	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1121095305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	TT2	100
1121095305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	TT2	100
1121095305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	TT2	100
1121095305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	TT2	100
1121095305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	TT2	100
1121095305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	TT2	100
1121095305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT2	100
1121108905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	TT2	100
1121108905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	TT2	100
1121108905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	TT2	100
1121108905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	TT2	100
1121108905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	TT2	100
1121108905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	TT2	100
1121108905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT2	100
1121112005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support_Low_Income	5
1121112005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support_Low_Income	5
1121112005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support_Low_Income	5
1121112005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support_Low_Income	5
1121112005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support_Low_Income	5
1121112005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support_Low_Income	5
1121112005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
1121113005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1121113005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1121113005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1121113005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1121113005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1121113005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1121113005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1121114105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Self_Identified_Vulnerable	2
1121114105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Self_Identified_Vulnerable	2
1121114105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Self_Identified_Vulnerable	2
1121114105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Self_Identified_Vulnerable	2
1121114105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Self_Identified_Vulnerable	2
1121114105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Self_Identified_Vulnerable	2
1121114105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
1121115105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Self_Identified_Vulnerable	2
1121115105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Self_Identified_Vulnerable	2
1121115105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Self_Identified_Vulnerable	2
1121115105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Self_Identified_Vulnerable	2
1121115105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Self_Identified_Vulnerable	2
1121115105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Self_Identified_Vulnerable	2
1121115105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Self_Identified_Vulnerable	2
1121116205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121116205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121116205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121116205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121116205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121116205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121116205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121117205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121117205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121117205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121117205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121117205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121117205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121117205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121118205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121118205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121118205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121118205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121118205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121118205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121118205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121119305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121119305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121119305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121119305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121119305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121119305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121119305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121121405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121121405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121121405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121121405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121121405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121121405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121121405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121122405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121122405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121122405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121122405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121122405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121122405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121122405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121123505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121123505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121123505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121123505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121123505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121123505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1121123505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121124505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121124505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121124505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121124505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121124505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121124505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121124505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121125505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121125505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121125505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121125505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121125505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121125505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121127605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121127605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121127605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121127605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121127605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121127605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121127605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121128705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121128705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121128705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121128705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121128705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121128705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121128705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121129705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121129705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121129705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121129705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121129705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121129705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121129705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121130810	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121130810	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121130810	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121130810	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121130810	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121130810	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121130810	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121133905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121133905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121133905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121133905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121133905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121133905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121133905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121134905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121134905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121134905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121134905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121134905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121134905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121134905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121136010	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121136010	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121136010	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121136010	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121136010	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121136010	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121136010	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121137005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121137005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121137005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121137005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121137005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121137005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121137005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121139105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121139105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121139105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121139105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121139105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121139105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121139105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121140105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121140105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121140105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121140105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121140105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121140105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121140105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121143310	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121143310	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121143310	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121143310	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121143310	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121143310	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121143310	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121144305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121144305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121144305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121144305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121144305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121144305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121144305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121145405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121145405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121145405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121145405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121145405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121145405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121145405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121147505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121147505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121147505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121147505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121147505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121147505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121147505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1121148510	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121148510	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121148510	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121148510	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121148510	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121148510	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121148510	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121149505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121149505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121149505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121149505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121149505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121149505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121149505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121150605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1121150605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1121150605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1121150605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1121150605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1121150605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1121150605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1121151605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121151605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121151605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121151605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121151605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121151605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121151605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121152705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121152705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121152705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121152705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121152705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121152705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121152705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121154805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121154805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121154805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121154805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121154805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121154805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121155805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121155805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121155805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121155805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121155805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121155805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121155805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121156805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121156805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121156805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121156805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121156805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121156805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121156805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121157905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121157905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121157905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121157905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121157905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121157905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121157905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121160005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121160005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121160005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121160005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121160005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121160005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121160005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121162105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121162105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121162105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121162105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121162105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121162105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121162105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121163105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121163105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121163105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121163105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121163105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121163105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121163105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121165205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121165205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121165205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121165205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121165205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121165205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121165205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121166205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121166205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121166205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121166205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121166205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121166205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121166205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121170405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121170405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121170405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121170405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121170405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121170405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121170405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121172505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121172505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121172505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121172505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121172505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121172505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121172505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121174605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1121174605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121174605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121174605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121174605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121174605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121174605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121176705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121176705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121176705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121176705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121176705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121176705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121176705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121177705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121177705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121177705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121177705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121177705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121177705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121177705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121178705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121178705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121178705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121178705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121178705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121178705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121178705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121179805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1121179805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1121179805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1121179805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1121179805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1121179805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1121179805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1121180805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1121180805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1121180805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1121180805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1121180805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1121180805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1121180805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1121184005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121184005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121184005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121184005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121184005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121184005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121184005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121185005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121185005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121185005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121185005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121185005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121185005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121185005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121186005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1121186005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1121186005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1121186005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1121186005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1121186005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1121186005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1121187105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121187105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121187105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121187105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121187105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121187105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121187105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121188105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121188105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121188105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121188105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121188105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121188105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121188105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121189205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121189205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121189205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121189205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121189205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121189205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121189205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121190205	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121190205	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121190205	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121190205	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121190205	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121190205	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121190205	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121191305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1121191305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1121191305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1121191305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1121191305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1121191305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1121191305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1121192305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121192305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121192305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121192305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121192305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121192305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121192305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121193305	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1121193305	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1121193305	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1121193305	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1121193305	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1121193305	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1121193305	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1121194405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
Medium Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1121194405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121194405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121194405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121194405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121194405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121194405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121195405	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support	5
1121195405	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support	5
1121195405	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support	5
1121195405	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support	5
1121195405	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support	5
1121195405	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support	5
1121195405	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
1121196505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121196505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121196505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121196505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121196505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121196505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121196505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121197505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121197505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121197505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121197505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121197505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121197505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121197505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121198605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1121198605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1121198605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1121198605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1121198605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1121198605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1121198605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1121199605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121199605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121199605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121199605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121199605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121199605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121199605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121200605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121200605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121200605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121200605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121200605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121200605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121200605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121201705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1121201705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1121201705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1121201705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1121201705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1121201705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1121201705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1121202705	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121202705	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121202705	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121202705	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121202705	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121202705	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121202705	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121203805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121203805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121203805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121203805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121203805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121203805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121203805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121204805	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121204805	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121204805	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121204805	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121204805	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121204805	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121204805	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121205905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1121205905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1121205905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121205905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121205905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121205905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121205905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121206905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1121206905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1121206905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1121206905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1121206905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1121206905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1121206905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1121207905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1121207905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1121207905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1121207905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1121207905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1121207905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1121207905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1121209005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1121209005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1121209005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1121209005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1121209005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1121209005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1121209005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1121210005	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support	5
1121210005	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support	5
1121210005	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support	5
1121210005	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support	5
1121210005	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support	5
1121210005	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support	5
1121210005	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support	5
1121211105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
1121211105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1121211105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1121211105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1121211105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1121211105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1121211105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1121212105	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1121212105	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1121212105	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1121212105	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1121212105	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1121212105	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1121212105	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1129895981	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1129895981	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1129895981	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1129895981	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1129895981	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1129895981	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1129895981	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
1242781493	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1242781493	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1242781493	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1242781493	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1242781493	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1242781493	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1242781493	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1266814628	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1266814628	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1266814628	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1266814628	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1266814628	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1266814628	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1266814628	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1306739248	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1306739248	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1306739248	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1306739248	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1306739248	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1306739248	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1306739248	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1382239790	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Life_Support_Low_Income	5
1382239790	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Life_Support_Low_Income	5
1382239790	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Life_Support_Low_Income	5
1382239790	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Life_Support_Low_Income	5
1382239790	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Life_Support_Low_Income	5
1382239790	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Life_Support_Low_Income	5
1382239790	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Life_Support_Low_Income	5
1601713952	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
1601713952	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
1601713952	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
1601713952	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
1601713952	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
1601713952	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
1601713952	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
1870264067	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
1870264067	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
1870264067	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
1870264067	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
1870264067	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
1870264067	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
1870264067	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
1988886797	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
1988886797	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
1988886797	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
1988886797	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
1988886797	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
1988886797	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
1988886797	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
2085374447	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
2085374447	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
2085374447	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
2085374447	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
2085374447	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
2085374447	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
2085374447	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
2751087491	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
2751087491	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
2751087491	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
2751087491	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
2751087491	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
2751087491	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
2751087491	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
2819316223	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
2819316223	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
2819316223	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
2819316223	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
2819316223	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
2819316223	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
2819316223	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
3209591310	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
3209591310	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
3209591310	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
3209591310	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
3209591310	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
3209591310	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
3209591310	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
3658582886	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
3658582886	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
3658582886	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
3658582886	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
3658582886	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
3658582886	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
3658582886	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
3925598959	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
3925598959	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
3925598959	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
3925598959	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
3925598959	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
3925598959	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
3925598959	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
4168060327	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
4168060327	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
4168060327	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
4168060327	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
4168060327	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
4168060327	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
4168060327	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4271793060	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
4271793060	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
4271793060	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
4271793060	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
4271793060	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
4271793060	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
4271793060	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4481420743	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
4481420743	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
4481420743	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
4481420743	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
4481420743	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
4481420743	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
4481420743	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4518556435	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
4518556435	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
4518556435	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
4518556435	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
4518556435	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
4518556435	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
4518556435	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4805833793	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
4805833793	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
4805833793	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
4805833793	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
4805833793	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
4805833793	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
4805833793	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
4881106983	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
4881106983	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
4881106983	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
4881106983	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
4881106983	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
4881106983	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
4881106983	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
5045202023	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
5045202023	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
5045202023	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
5045202023	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
5045202023	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
5045202023	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
5045202023	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
5080594475	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
5080594475	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
5080594475	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
5080594475	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
5080594475	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
5080594475	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
5080594475	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
5108321623	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
5108321623	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
5108321623	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
5108321623	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
5108321623	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
5108321623	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
5108321623	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
5131957876	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
5131957876	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
5131957876	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
5131957876	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
5131957876	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
5131957876	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
5131957876	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
5175526238	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
5175526238	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
5175526238	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
5175526238	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
5175526238	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
5175526238	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
5175526238	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
5389184118	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
5389184118	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
5389184118	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
5389184118	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
5389184118	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
5389184118	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
5389184118	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
5852898438	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
5852898438	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
5852898438	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
5852898438	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
5852898438	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
5852898438	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
5852898438	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
5950499905	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
5950499905	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
5950499905	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
5950499905	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
5950499905	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
5950499905	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
5950499905	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
5990794768	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
5990794768	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
5990794768	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
5990794768	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
5990794768	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
5990794768	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
5990794768	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
6507475701	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
6507475701	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
6507475701	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
6507475701	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
6507475701	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
6507475701	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
6507475701	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
6528763199	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	TT1	100

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
6528763199	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	TT1	100
6528763199	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	TT1	100
6528763199	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	TT1	100
6528763199	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	TT1	100
6528763199	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	TT1	100
6528763199	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	TT1	100
6567115564	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
6567115564	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
6567115564	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
6567115564	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
6567115564	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
6567115564	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
6567115564	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
6724980560	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Low_Income	2
6724980560	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Low_Income	2
6724980560	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Low_Income	2
6724980560	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Low_Income	2
6724980560	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Low_Income	2
6724980560	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Low_Income	2
6724980560	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Low_Income	2
6745432366	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
6745432366	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
6745432366	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
6745432366	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
6745432366	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
6745432366	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
6745432366	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
6766299059	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
6766299059	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
6766299059	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
6766299059	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
6766299059	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
6766299059	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
6766299059	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
6819194467	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
6819194467	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
6819194467	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
6819194467	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
6819194467	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
6819194467	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
6819194467	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
7080371856	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
7080371856	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
7080371856	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
7080371856	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
7080371856	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
7080371856	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
7080371856	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
7155918655	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
7155918655	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
7155918655	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
7155918655	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
7155918655	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
7155918655	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
7155918655	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
7190194596	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
7190194596	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
7190194596	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
7190194596	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
7190194596	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
7190194596	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
7190194596	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
7644976975	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
7644976975	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
7644976975	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
7644976975	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
7644976975	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
7644976975	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
7644976975	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
7665001981	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
7665001981	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
7665001981	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
7665001981	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
7665001981	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
7665001981	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
7665001981	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
7835140505	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
7835140505	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
7835140505	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
7835140505	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
7835140505	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
7835140505	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
7835140505	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
7932488657	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
7932488657	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
7932488657	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
7932488657	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
7932488657	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
7932488657	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
7932488657	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
7985486294	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
7985486294	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
7985486294	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
7985486294	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
7985486294	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
7985486294	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
7985486294	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
8133573916	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
8133573916	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
8133573916	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
8133573916	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
8133573916	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
8133573916	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
8133573916	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
8303981168	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
8303981168	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
8303981168	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
8303981168	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
8303981168	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
8303981168	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
8303981168	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
8324695605	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
8324695605	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
8324695605	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
8324695605	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
8324695605	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
8324695605	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
8324695605	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
8340568340	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
8340568340	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
8340568340	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
8340568340	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
8340568340	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
8340568340	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
8340568340	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
8354406474	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
8354406474	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
8354406474	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
8354406474	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
8354406474	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
8354406474	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
8354406474	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
8527330423	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
8527330423	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
8527330423	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
8527330423	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
8527330423	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
8527330423	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
8527330423	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
8621526567	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
8621526567	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
8621526567	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
8621526567	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
8621526567	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
8621526567	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
8621526567	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
8756281964	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
8756281964	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
8756281964	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
8756281964	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
8756281964	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
8756281964	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
8756281964	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
8773950661	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
8773950661	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
8773950661	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
8773950661	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
8773950661	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
8773950661	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
8773950661	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
8816073152	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
8816073152	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
8816073152	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
8816073152	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
8816073152	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
8816073152	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
8816073152	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
8847744494	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
8847744494	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
8847744494	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
8847744494	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
8847744494	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
8847744494	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
8847744494	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
9412502500	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
9412502500	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
9412502500	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
9412502500	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
9412502500	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
9412502500	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
9412502500	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
9456644178	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	RES	Regular Customer	1
9456644178	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	RES	Regular Customer	1
9456644178	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	RES	Regular Customer	1
9456644178	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	RES	Regular Customer	1
9456644178	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	RES	Regular Customer	1
9456644178	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	RES	Regular Customer	1
9456644178	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	RES	Regular Customer	1
9457459356	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
9457459356	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
9457459356	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
9457459356	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
9457459356	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
9457459356	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
9457459356	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
9495539342	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
9495539342	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
9495539342	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
9495539342	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
9495539342	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
9495539342	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
9495539342	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1
9629330261	GIRVAN 110280726	08182021_2024Q4LB	8/18/2021	18.5	Non-RES	Regular Customer	1
9629330261	GIRVAN 110280726	09072020_2024Q4LB	9/8/2020	26.5	Non-RES	Regular Customer	1
9629330261	GIRVAN 110280726	09272020_2024Q4LB	9/27/2020	31.5	Non-RES	Regular Customer	1
9629330261	GIRVAN 110280726	10092019_2024Q4LB	10/9/2019	19.5	Non-RES	Regular Customer	1
9629330261	GIRVAN 110280726	10222020_2024Q4LB	10/22/2020	32.5	Non-RES	Regular Customer	1
9629330261	GIRVAN 110280726	10252020_2024Q4LB	10/25/2020	35.5	Non-RES	Regular Customer	1
9629330261	GIRVAN 110280726	10292019_2024Q4LB	10/29/2019	26.5	Non-RES	Regular Customer	1

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Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
Medium Risk Event Totals

wdrm_v4_cs_name	event_name	count_spids_of_event_on_cs	cmi_of_event_on_cs	unscaled_cost_of_event_on_cs
GIRVAN 110280726	10252020_2024Q4LB	414	881,820	$ 3,605,523.74
GIRVAN 110280726	10222020_2024Q4LB	413	805,350	$ 3,300,818.84
GIRVAN 110280726	09272020_2024Q4LB	414	782,460	$ 3,199,267.54
GIRVAN 110280726	10292019_2024Q4LB	414	658,260	$ 2,691,447.30
GIRVAN 110280726	09072020_2024Q4LB	408	648,720	$ 2,682,292.90
GIRVAN 110280726	10092019_2024Q4LB	414	484,380	$ 1,980,498.95
GIRVAN 110280726	08182021_2024Q4LB	414	459,540	$ 1,878,934.91

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PSPS Toy Problem Calculations
Medium Risk Distribution (Coefficients)

direction	selected_cs	related_cs	event_name	ancestors_in_event	to_this_cs_intersection_hftd_hfra_length_miles	arr_sum_intersected_hftdhfra_miles	miles_weighted_coefficient	cs_risk_by_coefficient	cs_CMI_by_coefficient	annual_risk_for_event	annual_cmi_for_event
FROM_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	08182021_2024Q4LB	[GIRVAN 110280726]	6.431643692	6.431643692	1	$ 1,878,934.91	459,540	$ 268,419.27	65,649
FROM_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	09072020_2024Q4LB	[GIRVAN 110280726]	0.422065931	0.422065931	1	$ 2,682,292.90	648,720	$ 383,184.70	92,674
FROM_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	09272020_2024Q4LB	[GIRVAN 110280726]	1.028429876	1.028429876	1	$ 3,199,267.54	782,460	$ 457,038.22	111,780
FROM_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	10092019_2024Q4LB	[GIRVAN 110280726]	6.431643692	6.431643692	1	$ 1,980,498.95	484,380	$ 282,928.42	69,197
FROM_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	10222020_2024Q4LB	[GIRVAN 110280726]	6.049284928	6.049284928	1	$ 3,300,818.84	805,350	$ 471,545.55	115,050
FROM_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	10252020_2024Q4LB	[GIRVAN 110280726]	6.431643692	6.431643692	1	$ 3,605,523.74	881,820	$ 515,074.82	125,974
FROM_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	10292019_2024Q4LB	[GIRVAN 110280726]	6.036438167	6.036438167	1	$ 2,691,447.30	658,260	$ 384,492.47	94,037
TO_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	08182021_2024Q4LB	[GIRVAN 110280726]	6.431643692	6.431643692	1	$ 1,878,934.91	459,540	$ 268,419.27	65,649
TO_THIS_CS	GIRVAN 110280726	GIRVAN 1102259230	08182021_2024Q4LB	[GIRVAN 1102259230, GIRVAN 110280726]	6.431643692	6.645433725	0.967829032	$ 40,824.98	50,492	$ 5,832.14	7,213
TO_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	09072020_2024Q4LB	[GIRVAN 110280726]	0.422065931	0.422065931	1	$ 2,682,292.90	648,720	$ 383,184.70	92,674
TO_THIS_CS	GIRVAN 110280726	GIRVAN 1102259230	09072020_2024Q4LB	[GIRVAN 110280726]	0.422065931	0.422065931	1	$ 60,412.49	74,730	$ 8,630.36	10,676
TO_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	09272020_2024Q4LB	[GIRVAN 110280726]	1.028429876	1.028429876	1	$ 3,199,267.54	782,460	$ 457,038.22	111,780
TO_THIS_CS	GIRVAN 110280726	GIRVAN 1102259230	09272020_2024Q4LB	[GIRVAN 110280726]	1.028429876	1.028429876	1	$ 71,823.43	88,830	$ 10,260.49	12,690
TO_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	10092019_2024Q4LB	[GIRVAN 110280726]	6.431643692	6.431643692	1	$ 1,980,498.95	484,380	$ 282,928.42	69,197
TO_THIS_CS	GIRVAN 110280726	GIRVAN 1102259230	10092019_2024Q4LB	[GIRVAN 1102259230, GIRVAN 110280726]	6.431643692	6.645433725	0.967829032	$ 43,031.74	53,221	$ 6,147.39	7,603
TO_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	10222020_2024Q4LB	[GIRVAN 110280726]	6.049284928	6.049284928	1	$ 3,300,818.84	805,350	$ 471,545.55	115,050
TO_THIS_CS	GIRVAN 110280726	GIRVAN 1102259230	10222020_2024Q4LB	[GIRVAN 1102259230, GIRVAN 110280726]	6.049284928	6.253734746	0.967307565	$ 71,680.92	88,654	$ 10,240.13	12,665
TO_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	10252020_2024Q4LB	[GIRVAN 110280726]	6.431643692	6.431643692	1	$ 3,605,523.74	881,820	$ 515,074.82	125,974
TO_THIS_CS	GIRVAN 110280726	GIRVAN 1102259230	10252020_2024Q4LB	[GIRVAN 1102259230, GIRVAN 110280726]	6.431643692	6.627030359	0.970516709	$ 78,557.38	97,158	$ 11,222.48	13,880
TO_THIS_CS	GIRVAN 110280726	GIRVAN 110280726	10292019_2024Q4LB	[GIRVAN 110280726]	6.036438167	6.036438167	1	$ 2,691,447.30	658,260	$ 384,492.47	94,037
TO_THIS_CS	GIRVAN 110280726	GIRVAN 1102259230	10292019_2024Q4LB	[GIRVAN 1102259230, GIRVAN 110280726]	6.036438167	6.2502282	0.965794844	$ 58,356.11	72,174	$ 8,336.59	10,311

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Electrical Undergrounding Program
PSPS Toy Problem Calculations
Medium Risk Final Circuit Segment Risk

direction	wdrm_v4_cs_name	annual_psps_risk_unscaled	annual_psps_CMI
TO_THIS_CS	GIRVAN 110280726	$ 2,823,353.03	749,398

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Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
Low Risk Base SPID Events

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
60913878	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
60913878	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
144585227	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
144585227	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
155391702	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
155391702	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
479911098	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
479911098	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
576765679	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
576765679	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
613589725	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Life_Support	5
613589725	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Life_Support	5
1138288383	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	Non-RES	TT1	100
1138288383	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	Non-RES	TT1	100
1199227350	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
1199227350	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
1246448902	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	Non-RES	CC2	2
1246448902	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	Non-RES	CC2	2
1776754699	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	Non-RES	CC2	2
1776754699	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	Non-RES	CC2	2
2012370368	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
2012370368	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
2108862605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	Non-RES	Regular Customer	1
2108862605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	Non-RES	Regular Customer	1
2458584493	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
2458584493	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
2818831047	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Self_Identified_Vulnerable	2
2818831047	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Self_Identified_Vulnerable	2
2871625621	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
2871625621	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
3081748824	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
3081748824	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
3356090875	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
3356090875	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
3580437723	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
3580437723	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
3687503865	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
3687503865	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
3909756372	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	Non-RES	TT1	100
3909756372	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	Non-RES	TT1	100
3918344071	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
3918344071	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
3965360103	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
3965360103	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
4418516805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	Non-RES	TE1	100
4418516805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	Non-RES	TE1	100
4757134264	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
4757134264	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
4840931427	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	Non-RES	CC2	2
4840931427	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	Non-RES	CC2	2
5560355287	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Medical_Baseline	2
5560355287	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Medical_Baseline	2
5596295400	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
5596295400	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
5860399433	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
5860399433	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7398994089	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7398994089	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7461231966	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7461231966	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466278405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466278405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466288805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466288805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466289905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Life_Support	5
7466289905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Life_Support	5
7466293005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466293005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466294005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466294005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466295105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Self_Identified_Vulnerable	2
7466295105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Self_Identified_Vulnerable	2
7466296105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466296105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466297205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7466297205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7466298205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466298205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466299305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466299305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466300305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466300305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466301305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466301305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466302405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466302405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466303405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466303405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466304505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466304505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466305505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466305505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466306605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466306605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466307605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466307605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466308605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466308605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466309705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466309705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466311805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466311805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466313905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466313905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466314905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466314905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466315905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466315905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466317005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466317005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466318005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
7466318005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466319105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466319105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466320105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466320105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466321205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466321205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466322205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466322205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466323205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466323205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466324305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466324305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466325305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466325305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466326405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466326405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466327405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Life_Support_Low_Income	5
7466327405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Life_Support_Low_Income	5
7466328505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466328505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466329505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Medical_Baseline	2
7466329505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Medical_Baseline	2
7466330505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466330505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466331605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Life_Support_Low_Income	5
7466331605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Life_Support_Low_Income	5
7466332605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466332605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466333705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466333705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466334705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7466334705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7466335805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466335805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466336805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Life_Support	5
7466336805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Life_Support	5
7466337805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7466337805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7466338905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466338905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466339905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466339905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466341005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Self_Identified_Vulnerable	2
7466341005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Self_Identified_Vulnerable	2
7466342005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466342005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466343105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466343105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466344105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7466344105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7466345105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7466345105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7466346205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466346205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466347258	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466347258	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466348305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7466348305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7466349305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466349305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466350405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466350405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466351405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466351405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466352405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466352405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466353505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466353505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466354505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466354505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466355605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466355605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466356605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466356605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466357705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466357705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466358705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466358705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466359705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466359705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466360805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466360805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466361805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466361805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466362905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Life_Support	5
7466362905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Life_Support	5
7466363905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466363905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466365005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466365005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466366005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466366005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466367005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7466367005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7466368105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466368105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466369105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7466369105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7466370205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466370205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466371205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466371205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466372305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7466372305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7466373305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466373305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466375405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466375405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466376405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466376405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466377505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466377505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466378505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7466378505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7466379605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466379605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1

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service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
7466380605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466380605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466381705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7466381705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7466382705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466382705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466383705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466383705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466384805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	Non-RES	Regular Customer	1
7466384805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	Non-RES	Regular Customer	1
7466385805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466385805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466387905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466387905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466389005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466389005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466390005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466390005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466391005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466391005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466392105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466392105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466393105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466393105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466394205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466394205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466407705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466407705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466419205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466419205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7466420282	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7466420282	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480485505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480485505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480505405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480505405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480507505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Medical_Baseline	2
7480507505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Medical_Baseline	2
7480508505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Self_Identified_Vulnerable	2
7480508505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Self_Identified_Vulnerable	2
7480510605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480510605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480530405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480530405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480536705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480536705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480555405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480555405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480558605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480558605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480559692	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480559692	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480562705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480562705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480563805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Life_Support	5
7480563805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Life_Support	5
7480564805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Life_Support	5
7480564805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Life_Support	5
7480565905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480565905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480566905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480566905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480569005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480569005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480571105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480571105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480572105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480572105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480573205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480573205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480574205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480574205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480575205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480575205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480576305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480576305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480577305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Medical_Baseline	2
7480577305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Medical_Baseline	2
7480578405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480578405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480579405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480579405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480580505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480580505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480581505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480581505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480582505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480582505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480583605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Life_Support	5
7480583605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Life_Support	5
7480584605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480584605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480585705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480585705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480586705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480586705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480587805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480587805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480588805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480588805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480590905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480590905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480591905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480591905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480593005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480593005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480594005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480594005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480595105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480595105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480596105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480596105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480597105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480597105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480599205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Life_Support	5
7480599205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Life_Support	5
7480600305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
Low Risk Base SPID Events
(Continued)

service_point_id	wdrm_v4_cs_name	event_name	lookback_event_date	total_outage_duration_hours	customer_class	critical_customer_type	critical_customer_weighting
7480600305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480601305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480601305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480602405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480602405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480603405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Life_Support	5
7480603405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Life_Support	5
7480604405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Medical_Baseline_Low_Income	5
7480604405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Medical_Baseline_Low_Income	5
7480605505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Medical_Baseline	2
7480605505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Medical_Baseline	2
7480606505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480606505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480607605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480607605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480608605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480608605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480609705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480609705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480610705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480610705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480611805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480611805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480612805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480612805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480613805	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480613805	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480614905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480614905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480615905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480615905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480617005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480617005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480618005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480618005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480619105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480619105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480620105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480620105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480621105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	Non-RES	Regular Customer	1
7480621105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	Non-RES	Regular Customer	1
7480622205	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480622205	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480623256	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480623256	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480624305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480624305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480625305	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480625305	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480626405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Medical_Baseline_Low_Income	5
7480626405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Medical_Baseline_Low_Income	5
7480627405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480627405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480628405	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480628405	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480629505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480629505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480630505	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7480630505	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7480631605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480631605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480632605	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480632605	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480633705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7480633705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7480634705	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Medical_Baseline_Low_Income	5
7480634705	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Medical_Baseline_Low_Income	5
7483056656	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7483056656	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7757415105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Low_Income	2
7757415105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Low_Income	2
7757435905	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7757435905	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7757437005	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7757437005	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7757440105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7757440105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7757441105	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7757441105	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7784865239	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7784865239	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7882072082	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7882072082	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7937808676	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
7937808676	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
7956439372	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	Non-RES	CC2	2
7956439372	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	Non-RES	CC2	2
8035896438	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
8035896438	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
8266720841	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	Non-RES	Regular Customer	1
8266720841	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	Non-RES	Regular Customer	1
8470517030	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
8470517030	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
8492235324	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
8492235324	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
8589179550	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Medical_Baseline_Low_Income	5
8589179550	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Medical_Baseline_Low_Income	5
8748520397	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
8748520397	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
8881898864	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
8881898864	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
9153204906	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
9153204906	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
9636233478	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Regular Customer	1
9636233478	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Regular Customer	1
9884536333	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Medical_Baseline_Low_Income	5
9884536333	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Medical_Baseline_Low_Income	5
9976594350	COARSEGOLD 21025380	10132018_2024Q4LB	10/15/2018	17.5	RES	Life_Support	5
9976594350	COARSEGOLD 21025380	10262019_2024Q4LB	10/27/2019	19.5	RES	Life_Support	5

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
Low Risk Event Totals

wdrm_v4_cs_name	event_name	count_spids_of_event_on_cs	cmi_of_event_on_cs	unscaled_cost_of_event_on_cs
COARSEGOLD 21025380	10262019_2024Q4LB	227	265,590	$ 691,933.95
COARSEGOLD 21025380	10132018_2024Q4LB	227	238,350	$ 620,966.36

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
Low Risk Distribution (Coefficients)

direction	selected_cs	related_cs	event_name	ancestors_in_event	to_this_cs_intersection_hftd_hfra_length_miles	arr_sum_intersected_hftdhfra_miles	miles_weighted_coefficient	cs_risk_by_coefficient	cs_CMI_by_coefficient	annual_risk_for_event	annual_cmi_for_event
FROM_THIS_CS	COARSEGOLD 21025380	COARSEGOLD 2102CB	10132018_2024Q4LB	[COARSEGOLD 2102CB]	7.001703342	7.001703342	1	$ 620,966.36	238,350	$ 88,709.48	34,050
FROM_THIS_CS	COARSEGOLD 21025380	COARSEGOLD 2102CB	10262019_2024Q4LB	[COARSEGOLD 21025380, COARSEGOLD 2102383092, COARSEGOLD 210210330, COARSEGOLD 2102CB]	14.04254868	38.1319905	0.368261622	$ 254,812.72	97,807	$ 36,401.82	13,972
FROM_THIS_CS	COARSEGOLD 21025380	COARSEGOLD 21025380	10262019_2024Q4LB	[COARSEGOLD 21025380, COARSEGOLD 2102383092, COARSEGOLD 210210330, COARSEGOLD 2102CB]	14.00421197	38.1319905	0.367256253	$ 254,117.07	97,540	$ 36,302.44	13,934
FROM_THIS_CS	COARSEGOLD 21025380	COARSEGOLD 210210330	10262019_2024Q4LB	[COARSEGOLD 21025380, COARSEGOLD 2102383092, COARSEGOLD 210210330, COARSEGOLD 2102CB]	9.763875664	38.1319905	0.256054707	$ 177,172.94	68,006	$ 25,310.42	9,715
FROM_THIS_CS	COARSEGOLD 21025380	COARSEGOLD 2102383092	10262019_2024Q4LB	[COARSEGOLD 21025380, COARSEGOLD 2102383092, COARSEGOLD 210210330, COARSEGOLD 2102CB]	0.321354187	38.1319905	0.008427417	$ 5,831.22	2,238	$ 833.03	320
TO_THIS_CS	COARSEGOLD 21025380	COARSEGOLD 21025380	10262019_2024Q4LB	[COARSEGOLD 21025380, COARSEGOLD 2102383092, COARSEGOLD 210210330, COARSEGOLD 2102CB]	14.00421197	38.1319905	0.367256253	$ 254,117.07	97,540	$ 36,302.44	13,934
TO_THIS_CS	COARSEGOLD 21025380	COARSEGOLD 210210610	10262019_2024Q4LB	[COARSEGOLD 210210610, COARSEGOLD 21025380, COARSEGOLD 2102383092, COARSEGOLD 210210330, COARSEGOLD 2102CB	14.00421197	39.57522715	0.353863085	$ 170,446.64	79,906	$ 24,349.52	11,415
TO_THIS_CS	COARSEGOLD 21025380	COARSEGOLD 21025722	10262019_2024Q4LB	[COARSEGOLD 21025722, COARSEGOLD 21025380, COARSEGOLD 2102383092, COARSEGOLD 210210330, COARSEGOLD 2102CB]	14.00421197	38.6922724	0.361938214	$ 81,849.09	26,678	$ 11,692.73	3,811

Workpaper 017B
Pacific Gas and Electric Company
Electrical Undergrounding Program
PSPS Toy Problem Calculations
Low Risk Final Circuit Segment Risk

direction	wdrm_v4_cs_name	annual_psps_risk_unscaled	annual_psps_CMI
TO_THIS_CS	COARSEGOLD 21025380	$ 72,344.69	29,161

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP018

EUP EPSS RISK MODEL V1 DOCUMENTATION

EUP EPSS Risk Model

v1 Documentation



Prepared By: PG&E's Electric Risk Mgmt & Analytics: Risk and Data Analytics (RaDA) Team

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Revision History

Rev	Date	Comment
1		Initial Release
1.3	2026-03-03	Updates to address minor methodology changes

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1 Executive Summary

The Enhanced Powerline Safety Settings (EPSS) Risk Model provides the dollarized risk of outages on circuit segments that occur during periods in which EPSS is enabled. It is used as a component of the overall Outage Risk Model, which is used by the Electrical Undergrounding Plan (EUP) project for prioritizing high risk circuit segments for undergrounding. The EPSS Risk Model is a deterministic mathematical model and calculates EPSS likelihood, which estimates the expected number of outages (in minutes per year) when EPSS is enabled, and EPSS consequence, which quantifies the expected cost (in dollars per minute of interruption) of an outage on a circuit segment that is calculated by the number of affected customers and value of service.

The EPSS Risk Model was developed to meet the requirements of SB884, which governs the regulation of the EUP filing, the guidelines for which were developed by the Office of Energy Infrastructure and Safety (OEIS). It also serves as a component of PG&E's broader strategy to mitigate wildfire risk while maintaining continuous and reliable electrical service to its customers.

2 Introduction

The EPSS Risk Model estimates the dollarized risk of outages on circuit segments during periods in which EPSS is enabled, including the risk associated with downstream outages. It is used as a component of the Outage Risk Model to support wildfire season planning and regulatory reporting, helping assess the tradeoff between wildfire mitigation and customer reliability impacts. While the model is deterministic and does not incorporate machine learning techniques, it provides a structured framework for evaluating outage risk on circuit segments, including downstream impacts. This document outlines the modeling approach, source data, and resulting probability predictions used in the EPSS Risk Model. It is intended to provide a high-level overview for a general audience, emphasizing conceptual understanding rather than detailed mathematical or scientific exposition.

Along with the PSPS Risk Model, the EPSS Risk Model is one of two models that feed into the Outage Risk Model. These models evaluate the risk associated with circuit segments using a circuit-based approach quantifying the dollar value of risk that could be avoided if a circuit segment was undergrounded and thereby excluded from exposure to the two preventative service outage programs.

2.1 EPSS Risk Model Overview

The EPSS program is a wildfire mitigation strategy in which EPSS device settings are enabled during elevated weather conditions. When active, the system automatically de-energizes power lines within one-tenth of a second when a fault is detected, reducing the risk of ignition. The EPSS Risk Model estimates the reliability risk, quantified in dollars, associated with sustained outages that occur under these conditions. The EPSS Risk Model is a deterministic mathematical model that leverages outputs from the Wildfire Distribution Risk Model (WDRM), developed by the Wildfire Data Science team, and the Distribution Reliability Value Model, developed by the Integrated Grid Planning team. The model calculates EPSS likelihood, which estimates the expected number of outages (in minutes/year) when EPSS is enabled, and EPSS consequence, which quantifies the expected cost (in dollars per minutes of interruption) of an outage on a circuit segment that is calculated by the number of affected customers and value of service.

This document describes version 1 of the EPSS Risk Model. Future versions will be developed around the Wildfire Mitigation Plan (WMP) reporting cycle and will be released in conjunction with the WDRM.

2.2 Document Suite

This documentation is part of the documentation suite for the Outage Risk Model developed in support of the EUP project:

- Outage Risk Model v1.1 Documentation
- EPSS Risk Model v1.3 Documentation (this document)
- PSPS Risk Model v1.3 Documentation

3 EPSS Risk Model Derivation

3.1 Data Inputs

The EPSS Risk Model relies on several data sources, described below. The specific applications of these sources are explained throughout the document.

The WDRM v4 provides circuit segments mapping (based on the January 1st, 2023 vintage) and probability of failure for each WDRM subset. In addition, WDRM subsets are also used to estimate the effectiveness of undergrounding power lines and alternative mitigations. Further details on WDRM v4, including methodology and subset models are available in the supporting document titled WDRM v4 Documentation.

The Distribution Reliability Value Model assesses the societal cost of service disruptions caused by asset failures. It produces a quantitative output called Distribution Reliability Consequence that determines the consequence based on both customer and grid-level costs. The model also provides outage duration estimates by equipment categories, which are used as inputs into the EPSS Risk Model.

The Interruption Cost Estimate (ICE) Calculator, developed by Lawrence Berkeley National Laboratory (LBNL) and Resource Innovations, Inc, is a reliability planning tool designed for estimating interruption costs and/or the benefits associated with reliability improvements. The EPSS Risk Model leverages customer power interruption costs from version 2.0 of the ICE Calculator.

3.2 EPSS Risk and Assumptions

The general framework of risk assessment is defined as:

$$Risk = Likelihood \times Consequence$$

For EPSS, this represents the incremental outage (or reliability) risk, quantified in dollars, associated with sustained outages that occur when EPSS is enabled during wildfire season. At the circuit segment level, this is calculated as the difference between the outage risk with EPSS enabled and the outage risk with EPSS disabled:

$$EPSS\_Risk_{cs} = risk\_with\_epss\_enabled_{cs} - risk\_with\_epss\_disabled_{cs}$$

In this context, likelihood reflects the probability of a sustained outage when EPSS is enabled or disabled during wildfire season, while consequence represents the duration and monetary impact of those outages. The resulting risk when EPSS is enabled is:

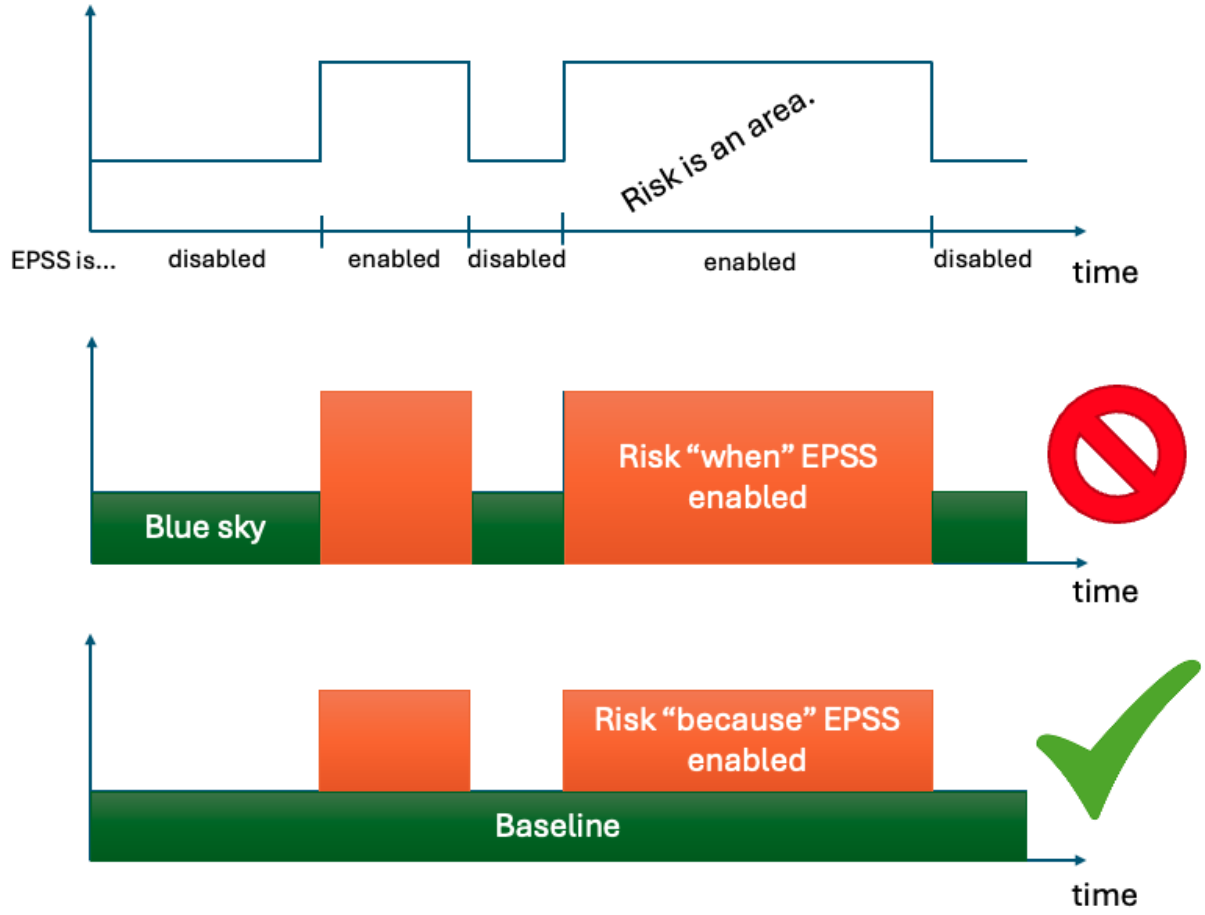
$$risk\_with\_epss\_enabled_{cs} = \sum_{m \in asset\_types} N^{EPSS\_enabled}_{sustained\ outages,m(s),cs} * C^{EPSS\_enabled}_{sustained\ outages,m,cs}$$

Where $N^{EPSS\_enabled}_{sustained\ outages,m(s),cs}$ is the number of expected sustained outages $N_{sustained\ outages}$ (excluding momentary, forced, transformer and switch outages) on circuit segments, cs, during the portions of wildfire season when EPSS is enabled, $EPSS\_enabled$. These outages are grouped according to the WDRM subsets s, which each subset is mapped to an asset type m (additional context is provided in Appendix B). Since this value represents a count over time, it is technically a rate and is also referred to as *likelihood* or *frequency*.

$C^{EPSS\_enabled}_{sustained\ outage,m,cs}$ is the consequence of a sustained outage $C_{sustained\ outage}$ (excluding momentary, forced, transformer and switch outages) should it occur on the circuit segment cs, from each of the IGP asset types m.

The risk, if EPSS were disabled, is similar to when EPSS is enabled, except for one vital nuance. The term $N^{EPSS\_disabled}_{sustained\ outages,m(s),cs}$ does *not* refer to outages expected during periods when EPSS was actually *disabled*. Instead, it estimates the number of outages that would have occurred during EPSS *enabled* periods if EPSS had *not* been enabled. For example, if EPSS is enabled on a circuit segment for 80% of wildfire season, $N^{EPSS\_enabled}$ reflects the expected outage count during that time, and $N^{EPSS\_disabled}$ reflects the expected outage count during that same time, assuming *EPSS had been disabled.* The remaining 20% of the season, when EPSS was disabled, is excluded from this analysis. This approach isolates the incremental outage risk attributable to EPSS enablement. As illustrated in Figure 1: Incremental Risk from EPSS Enablement, the model decomposes total EPSS outage risk into two components: the annual baseline risk that would exist if EPSS were disabled (the green horizontal rectangle), and the incremental risk introduced by enabling EPSS (the orange boxes stacked above). The full height of the stacked boxes reflects the total risk when EPSS is enabled. The portion overlapping the horizontal rectangle represents risk that would have occurred regardless. The difference between the “risk *because* EPSS is enabled” boxes, is the focus of this model.

Figure 1: Incremental Risk from EPSS Enablement



3.3 EPSS Likelihood

The EPSS likelihood represents the likelihood of a sustained outage occurring on a circuit segment when EPSS is enabled. It is derived from the probability of failures in the WDRM, and mapped to asset types, such as conductors and support structures. The calculation also incorporates historical EPSS enablement data, filtered for High Fire Threat Districts (HFTD) and/or High Fire Risk Areas (HFRA). This produces a likelihood value that reflects the expected number of sustained outages per year during EPSS-enabled periods.

As of the Oct 2025 methodology update, transformer and switch-related WDRM subset probabilities are set to zero for EPSS outage risk estimation because these failure modes are considered independent of EPSS operations.

3.3.1 WDRM: Probability of Failure

The EPSS likelihood calculation aggregates probability of failure from all WDRM subsets. While the WDRM shows that outages don't always cause ignitions and failures don't always cause outages, the EPSS Risk Model assumes every failure results in an outage. Therefore, in this analysis, the probability of failure is used interchangeably for outage rate. For asset-based models in the WDRM, this probability is mapped to the support structure. For pixel-based models, the probability of failure for each driver is divided by the number of structures per pixel to estimate per-structure risk. Assets and pixels are filtered to include only those located within HFTD/HFRA. This produces a per-structure probability of failure, which is then aggregated across all structures within a circuit segment to estimate EPSS likelihood at the circuit segment level.

$$L_{CS} = \sum_{CS,asset} L_{asset} + \sum_{CS,pixel} \frac{L_{pixel}}{N_{structures}}$$

3.3.2 Circuit Segment Probability of Failure

To estimate EPSS outage risk, two key probabilities are calculated for each circuit segment:

The first is the probability of a sustained outage when EPSS is enabled. This is derived from multiplying the expected number of outages during wildfire season, based on the WDRM, by the fraction of time during which EPSS is enabled (on each circuit). No adjustment is made for sustained versus momentary outages, as nearly all outages occurring during EPSS activation are sustained. Mathematically, this is expressed as:

$$N^{EPSS\_enabled}_{sustained\ outages,s,cs} = f_{EPSS_{enabled},cs} * N_{outages,s,cs}$$

Where:

- $N_{outages,s,cs}$ is the annual expected outage count from each subset s on the circuit segment cs.
- $f_{EPSS_{enabled},cs}$ is the fraction of wildfire season during which EPSS is enabled on the circuit segment cs.

The second is a counterfactual (unrealized) probability, an estimate of the number of sustained outages that would have occurred during EPSS-enabled periods if EPSS had

not been active. This probability is calculated by multiplying the expected outage count during wildfire season by the fraction of time that EPSS is enabled on each circuit and by the proportion of outages that are historically sustained during wildfire season had EPSS been disabled. The expression is:

$$N^{EPSS\_disabled}_{sustained\ outages,s,cs} = f_{EPSS\_enabled,cs} * N_{outages,s,cs} * f_{sustained,s}$$

Where, the additional term, $f_{sustained,s}$ represents the ratio of sustained outages to total outages for subset s, based on historical data.

To complete the risk estimation, a baseline probability of sustained failure is calculated for the entire year, representing conditions as though EPSS were not in place. This annual probability, expressed in outages per year and potentially exceeding 1, is intended to reflect sustained outage risk across all seasons. Since the WDRM provides failure probability models only for the wildfire season (June through November), assumptions are required to extend the analysis to the winter season (December through May).

To estimate the annual probability of sustained outages, the wildfire season failure probability from the WDRM is multiplied by 2.5 (further explained in Appendix A), then adjusted by the historical proportion of sustained outages, and finally, normalized into outages/circuit-mile.

3.3.2.1 EPSS Historical Enablement

EPSS enablement is determined daily on elevated weather conditions and is primarily enabled during the wildfire season. Although EPSS may be enabled at any time of year, the system is most frequently activated between June and November, what is considered as wildfire season. Enablement occurs at the circuit level, meaning an entire circuit is either enabled or disabled.

For the years 2017-2020, the analysis uses EPSS lookback data developed by the Enterprise Operations Risk Management (EORM) team, which retrospectively estimates EPSS enablement based on current criteria. The year 2021 is excluded from the analysis, as it was a pilot year and does not reflect current EPSS settings or enablement (operational practices).

For 2022 through 2024, actual historical enablement data is used, filtered to include only wildfire season months. While EPSS may have been enabled outside of wildfire season, those instances are excluded to maintain consistency in seasonal risk assessment.

Based on the enablement data described above, the fraction of EPSS enablement for each circuit is calculated as the ratio of total enabled days to total wildfire season days.

$$f_{EPSS_{enabled}} = \frac{total\ enabled\ days_{2017-2024}}{total\ wildfire\ season\ days_{2017-2024}}$$

3.3.2.2 Sustained Outages

Momentary outages occur frequently and are inherent to automatic reclosing operations (particularly when EPSS is not enabled), therefore, the EPSS program primarily impacts sustained outages, defined as those lasting longer than five minutes. These events are tracked and reflected in reliability metrics such as System Average Interruption Duration Index (SAIDI) and System Average Interruption Frequency Index (SAIFI). To isolate sustained outages from total outages, the analysis applies a sustained outage fraction that excludes momentary events. When EPSS is *disabled*, reclosers frequently reestablish current for minor events, such as a small branch falling on the conductor, which creates a momentary outage. When EPSS is *enabled*, the same event will result in a sustained outage due to the disabling of automatic reclosing. As a result, the fraction of sustained outages when EPSS is *enabled* is assumed to be approximately 1, while the fraction of sustained outages when EPSS is *disabled* is based on WDRM subset. This calculation uses historical non-EPSS regular and forced outages during wildfire season in HFTD/HFRA. The sustained outage fraction for each WDRM subset is calculated by dividing the number of sustained outages over the total number of outages.

3.4 EPSS Consequence

EPSS consequence represents the financial impact of a sustained outage occurring on a circuit segment when EPSS is enabled, measured in dollars per minute of interruption. This value is determined by evaluating the number of customers affected by an EPSS outage, in addition to those who would have experienced a normal outage. The calculation also incorporates outage duration data from the IGP Distribution Reliability Value Model and customer interruption costs per minute, also referred to as value of service, sourced from the ICE 2.0 Calculator. Together, these components produce a consequence value that reflects the expected impact of sustained outages during EPSS-enabled periods. The final value is calculated using the following expression:

$$C^{EPSS\_enabled}_{sustained\ outages,m,cs} = D_{sustained\ outage,m,cs} * N^{EPSS\_enabled}_{customers,m,cs} * VOS_{cs}$$

Where m refers to two asset groups: conductor and support structure, represented as $m \in \{conductor, support\ structure\}$.

3.4.1 Impacted Customer Count

To determine the number of customers affected by an EPSS outage, the model evaluates the primary overhead conductor or support structure associated with each EPSS-enabled protective device. This analysis includes both the downstream customer count during EPSS-enabled outages and the customer count associated with conductors and support structures during outages that occur when EPSS is not enabled. This distinction allows the model to compare customer impact resulting from damage to conductor or support structures during EPSS-enabled outages versus non-EPSS outages, thereby identifying the incremental customer count attributable to EPSS activation.

The model then applies a standardized average value of service per EPSS device. This value is based on the mix of customers connected to that device and is calculated using the ICE 2.0 Calculator.

3.4.2 Reliability Consequence Model: Outage Duration

The expected duration of an outage on a circuit segment, $D_{sustained\ outage,m,cs}$ is derived from the IGP Outage Duration model. This model estimates the expected outage duration for each asset based on its type and the kind of protective device located upstream of it. The duration is represented as $d_{a(m,p)}$, where a is the asset, m indicates the asset type (such as conductor or support structure), and p identifies the upstream protective device (including fuse, switch, DPD [dynamic protective device], or breaker).

To calculate the expected outage duration for a specific asset type on a circuit segment, the model applies the following formulation:

$$D_{sustained\ outage,m,cs} = \frac{1}{N_{m,cs}} \sum_{\substack{a \in cs \\ of\ type\ m}} d_a$$

In this equation, $N_{m,cs}$ represents the number of individual assets of type m on circuit segment cs. For example, if the asset type is support structures, the model sums the estimated outage durations for all support structures within the circuit segment and

divides by the total number of support structures present on that segment. Each support structure's outage duration is determined by the type of upstream protective device, resulting in one of four possible values measured in minutes.

The model also estimates the number of customers impacted by an outage under two scenarios: when EPSS is enabled and when it is not. The expected number of customers affected when EPSS is enabled is denoted as:

$$N_{customers,m,cs}^{EPSS\_enabled}$$

In this scenario, the outage is attributed to the nearest EPSS-enabled device, which may be located upstream of the nearest protective device that would normally isolate the fault. This results in a broader set of customers being impacted, as the outage is traced to a higher-level device in the system.

When EPSS is not enabled, the outage is contained by the nearest protective device. The number of customers impacted in this case reflects those downstream of that device and is represented as:

$$N_{customers,m,cs}^{EPSS\_disabled}$$

In HFTD/HFRA, the average ratio of customers impacted under EPSS-enabled versus EPSS-disabled conditions varies significantly across circuit segments. This ratio is approximately 2.15 and is represented as:

$$N_{customers,m,cs}^{EPSS\_enabled} \,/\, N_{customers,m,cs}^{EPSS\_disabled}$$

The final component is VOS_{cs}, the value of service for customers in a given circuit segment. This value is calculated as the weighted average of the value of service across customer classes, based on the number of customers in each class:

$$VOS_{cs} = \sum_{c \in \{RES, NON-RES\}} VOS_c * \frac{N_{c,cs}}{N_{cs}}$$

As stated in previous sections, the EPSS Risk Model version 1 leverages value of service from the ICE 2.0 Calculator, which categorizes customers into two classes, Residential and Non-Residential for both HFTD/HFRA and Non-HFTD/Non-HFRA. For Residential customers, the value of service, VOS_c is $0.08 per customer-minute of interruption while for Non-Residential customers, it is $23.11 per customer-minute of interruption. In this equation, $N_{c,cs}$ refers to the number of customers of class c on the circuit segment cs, and N_{cs} is the number of customers on that circuit segment.

3.5 Likelihood and Derived Consequence for EUP

For EUP reporting, we define likelihood as total outage-minutes during EPSS-enabled periods (i.e., probability × duration), and we derive consequence as dollarized risk divided by likelihood.

The EPSS risk is defined as the incremental risk of outages that exceed the standard outage risk when EPSS is not enabled. This includes outages that were mitigated due to EPSS being active, by considering the likelihood of those outages occurring if EPSS had not been enabled during the same time.

Given that OEIS defines likelihood to include outage duration, the EUP framework removes outage duration from the consequence calculation. At the circuit segment level, this adjustment is implemented by multiplying the previously defined likelihood by outage duration, while consequence is calculated by dividing risk by likelihood.

It is important to note that consequence is calculated at the circuit segment level but cannot be aggregated to higher levels using a simple summation. Instead, consequence must be derived at the portfolio or system levels by dividing the aggregated risk across all relevant circuit segments by the aggregated likelihood across those same segments. This method accounts for the varying number of event probability results associated with each segment. Attempting to sum individual consequence values and the total likelihood directly would not yield an accurate representation of total risk. To resolve this mathematical inconsistency, the effective consequence for an aggregated composite is back-calculated as a likelihood-weighted value by dividing the total risk for the portfolio or system by the total likelihood for that same group of segments.

3.6 Customer-Experienced vs Circuit-Based Risk

“Circuit-Experienced” Risk refers to the risk attributed to the entire circuit resulting from failures that occur on a specific circuit segment. Whereas “Customer-Experienced” Risk captures the risk experienced by customers located on a circuit segment due to failures occurring anywhere along the full circuit. The EPSS Risk Model inherently produces circuit-experienced risk values. This is because EPSS devices are not mapped one-to-

one with circuit segments; instead, an EPSS zone, the area protected by a single EPSS device, may span multiple circuit segments. When an EPSS outage occurs on a given circuit segment, it may affect customers located outside of that circuit segment but still within the same EPSS zone. In such cases, the risk is attributed to the circuit segment where the outage originated, which aligns with the definition of circuit-experienced risk.

4 Model Usage

Per circuit segment, reported outputs include: dollarized risk, annual CMI, likelihood (outage-minutes), consequence ($/minute), and expected outage count (sustained outages).

4.1 Usage

The EPSS Risk Model is applied at the circuit segment level. It is used as a component of the Outage Risk Model during wildfire season planning and regulatory reporting to assess the tradeoff between wildfire mitigation and customer reliability impacts.

4.2 Shelf Life

The EPSS Risk Model is structured around the Wildfire Mitigation Plan (WMP) reporting cycle and is refreshed in conjunction with new releases of the WDRM. With each Outage Program Risk Model version, the inputs will be updated accordingly with the WDRM and input data.

Appendices

Appendix A: Baseline Outage Risk

A baseline probability of sustained failure for the entire year must be calculated to get baseline outage risk, representing conditions as though EPSS were not in place. This annual probability, expressed in outages per year and potentially exceeding 1, is intended to reflect sustained outage risk across all seasons. Since the WDRM provides failure probability models only for the wildfire season (June through November), assumptions are required to extend the analysis to the winter season (December through May).

An initial approach to estimating annual outage risk involved comparing WDRM wildfire season models with prototype full-year models available for a limited number of subsets. However, this method was ultimately discarded due to significant compatibility issues between the two model types. In several instances, the winter outage probabilities derived from the full-year models were negative, an outcome that is clearly infeasible and indicative of underlying model misalignment.

As an alternative, the analysis shifted to examining counts at the circuit level, independent of subset distinctions. The objective was to determine whether a correlation existed between winter and wildfire season outages. While the drivers of outages in these two seasons differ substantially, making it plausible for a circuit to be highly vulnerable in winter but not during wildfire season, a moderate correlation of approximately 65% was observed. Based on this relationship, a multiplier of 1.5 was derived, indicating that circuits experience roughly 1.5 times more outages in winter than during wildfire season. To estimate the annual probability of sustained outages, the wildfire season failure probability from the WDRM is multiplied by 2.5 (accounting for both seasons), and then further adjusted by the historical proportion of sustained outages (~83%), thereby excluding momentary outages from the final estimate. Outages are then normalized by total circuit mileage to calculate outage density (outages per mile) for each.

Appendix B: Mapping WDRM Subsets to IGP Asset Types

Twenty-two WDRM subsets are categorized according to their association with either conductor or support structure failures. These groupings are used to calculate outage duration using the IGP model. Table 1: Example Mapping of WDRM Subsets to Asset Types illustrates this mapping using the example circuit segment ORO FINO 11012022. In the figure, the first ten subsets (highlighted in yellow) are mapped to conductors, while the remaining twelve subsets (highlighted in blue) are mapped to support structures.

Table 1: Example Mapping of WDRM Subsets to Asset Types

cs_name	ORO FINO 11012022
primary_conductor_line_slap_cause_prob_failure_cs_ss_split_sum	0.016805456
primary_conductor_wire_down_cause_prob_failure_cs_ss_split_sum	0.069652447
primary_conductor_other_cause_prob_failure_cs_ss_split_sum	0.045507094
cs_split_third_party_balloon_probability_outage_sum	0.002913768
cs_split_third_party_other_probability_outage_sum	0.101219326
cs_split_vegetation_branch_probability_outage_sum	0.558569741
cs_split_vegetation_trunk_probability_outage_sum	0.685249781
cs_split_vegetation_other_probability_outage_sum	0.135380507
cs_split_other_equipment_type_probability_outage_sum	1.42377945
cs_split_secondary_conductor_probability_outage_sum	0.070908471
capacitor_bank_equipment_cause_prob_failure_sum	0.006228554
fuse_equipment_cause_prob_failure_sum	0.041683587
support_structure_equipment_cause_prob_failure_cs_ss_split_sum	0.198224595
support_structure_electrical_cause_prob_failure_cs_ss_split_sum	0.054776475
switch_equipment_cause_prob_failure_sum	0.00571443
transformer_equipment_cause_prob_failure_sum	0.654647632
transformer_equipment_leaking_prob_failure_sum	0.043604699
voltage_regulator_equipment_cause_prob_failure_sum	0.004826526
cs_split_animal_bird_probability_outage_sum	0.025201331
cs_split_animal_squirrel_probability_outage_sum	0.710703967
cs_split_animal_other_probability_outage_sum	0.005710891
cs_split_third_party_vehicle_probability_outage_sum	0.16098247

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP019

EUP OUTAGE PROGRAM RISK MODEL V1 DOCUMENTATION

EUP Outage Program Risk Model

v1 Documentation



Prepared By: PG&E's Electric Risk Mgmt & Analytics: Risk and Data Analytics (RaDA) Team

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Revision History

Rev	Date	Comment
1		Initial Release
1.1	2026-03-03	Updated references to EPSS and PSPS document versions

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2 Introduction

The Outage Program Risk Model (also known as the Outage Risk Model or Reliability Model) quantifies the reliability impacts of two wildfire mitigation programs: Enhanced Powerline Safety Settings (EPSS) and Public Safety Power Shutoff (PSPS). It estimates the dollarized outage risk on circuit segments during EPSS-enabled periods and PSPS events, including downstream outage impacts. These models evaluate the risk associated with circuit segments using a circuit-based approach that quantifies the dollar value of risk potentially avoided if a circuit segment were undergrounded and thereby excluded from exposure to the two preventative service outage programs. While the model is deterministic and does not incorporate machine learning techniques, it provides a structured framework for evaluating outage risk on circuit segments, including downstream impacts.

2.1 Purpose

The Outage Program Risk Model was developed to meet the requirements of SB884. The Electrical Undergrounding Plan (EUP) uses these risk estimates to prioritize high-risk circuit segments for undergrounding. The model also supports wildfire season planning and regulatory reporting by evaluating the tradeoff between wildfire risk reduction and customer reliability impacts. Additionally, the Outage Program likelihood serves as the basis for establishing the High Frequency Outage Program threshold, which identifies additional circuit segments considered to have a significantly high likelihood of frequent or prolonged disruption of service to customers and are thus eligible for undergrounding or alternative mitigations.

This document outlines the modeling approach, source data, and resulting probability predictions used in the version 1 Outage Program Risk Model. It is intended to provide a high-level overview for a general audience, emphasizing conceptual understanding rather than detailed mathematical or scientific exposition.

2.2 EPSS and PSPS Risk Models Overview

The EPSS program is a wildfire mitigation strategy in which EPSS device settings are enabled during elevated weather conditions. When active, the system automatically de-energizes power lines within one-tenth of a second when a fault is detected, reducing the risk of ignition. The EPSS Risk Model estimates the reliability risk, quantified in dollars, associated with sustained outages that occur under these conditions. The model calculates EPSS likelihood, which estimates the expected number of outages (in minutes/year) when EPSS is enabled, and EPSS consequence, which quantifies the expected cost (in dollars per minute of interruption) of an outage on a circuit segment that is calculated by the number of affected customers and value of service.

Meanwhile, the PSPS Risk Model estimates the dollarized risk of PSPS outages at the circuit segment level, accounting for both direct impacts and the risk of causing downstream outages. The model incorporates multiple factors related to likelihood and consequence of PSPS events. Likelihood factors include historical presence within a spatiotemporal PSPS event polygon, minutes of resulting outage, miles of exposed circuit, and circuit geometry both upstream and downstream. Consequence factors include the number of customers affected by historical outages and customer segmentation factors and service cost for each affected customer.

For more detailed information on the EPSS Risk Model and PSPS Risk Model, see their respective documentation.

2.3 Document Suite

This documentation is part of the documentation suite for the Outage Risk Model developed in support of the EUP project:

- Outage Risk Model v1.1 Documentation (this document)
- EPSS Risk Model v1.3 Documentation
- PSPS Risk Model v1.3 Documentation

3 Outage Program Risk Model Derivation

The Outage Program Risk Model calculates Outage Program likelihood, which estimates the expected number of outage minutes per year when either EPSS is enabled or a PSPS event is initiated. It also quantifies the Outage Program consequence, representing the expected cost of an outage on a circuit segment in terms of dollars per minute of interruption. This cost is derived from the characteristics of affected customers and the associated value of service. While these risk components characterize the frequency and impact of outages, overall Outage Program risk is derived separately through aggregation of the risk outputs from the EPSS and PSPS Risk Models, resulting in an estimate of the expected financial impact of outage programs on circuit segments.

3.2 Outage Program Risk

The Outage Program Risk Model quantifies the risk in dollars resulting from the outages created by two wildfire mitigation programs: EPSS and PSPS. The model leverages risk outputs from the EPSS Risk Model and PSPS Risk Model. Each program's risk is represented in dollars, and the total Outage Program risk is calculated as the sum of the individual risks:

$$Risk_{Outage\ Program} = Risk_{EPSS} + Risk_{PSPS}$$

3.3 Outage Program Likelihood

Outage Program likelihood represents the probability of a sustained outage occurring on a circuit segment when either EPSS is enabled or a PSPS event is initiated. It is defined as the expected number of outage minutes per year attributable to these programs and is calculated by summing the individual likelihoods:

$$Likelihood_{Outage\ Program} = Likelihood_{EPSS} + Likelihood_{PSPS}$$

3.4 Outage Program Consequence

The Outage Program consequence represents the financial impact of a sustained outage occurring on a circuit segment when either EPSS is enabled or a PSPS event is initiated. It is measured in dollars per minute of interruption and is used to estimate the financial impact to customers based on the number and type of customers affected,

as determined by the value of service (VOS) lost. While risk (in dollars) and likelihood (in minutes) can be summed across programs, consequence must be derived by dividing risk by likelihood. Consequence cannot be aggregated directly because it is a normalized measure of outage impact ($/minute), not a measure of total impact. Total financial impact is obtained only after consequence is combined with the corresponding outage duration (likelihood) to calculate risk.

$$Consequence_{Outage\ Program} = \frac{Risk_{Outage\ Program}}{Likelihood_{Outage\ Program}}$$

For the same reason, consequence is determined at the circuit segment level; however, it cannot be combined into higher levels by straightforward summation. Instead, consequence must be derived at the portfolio or system level by dividing the aggregated risk across all relevant circuit segments by the aggregated likelihood across those same segments. This method accounts for the varying number of event probability results associated with each segment.

4 Model Usage

4.1 Usage

The Outage Program Risk Model is applied at the circuit segment level, and it is used as an input into Overall Utility Risk. In addition to its role in risk quantification, the Outage Program likelihood is used to determine eligibility for the High Frequency Outage Program Threshold. Circuit segments that exceed this threshold are considered to have a significantly high likelihood of frequent or prolonged service disruption. The threshold encompasses 1% of primary overhead miles in PG&E's system *and* accounts for up to 10% of Outage Program likelihood by rank.

The Ignition Tail Risk Threshold flag is derived using a similar approach, based on ignition-weighted wildfire consequence. This threshold also represents 1% of primary overhead miles in PG&E's system *and* captures up to 10% of the ignition-weighted wildfire consequence from the WDRM, ranked by score. It identifies circuit segments with significant potential for ignition of a catastrophic wildfire and designates them for special consideration.

4.2 Shelf Life

The Outage Program Risk Model is structured around the Wildfire Mitigation Plan (WMP) reporting cycle and is refreshed in conjunction with new releases of the WDRM. With each Outage Program Risk Model version, the inputs will be updated accordingly with the WDRM and input data.

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ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP020

EUP PSPS V1 RISK MODEL DOCUMENTATION

EUP PSPS Risk Model
v1 Documentation



Prepared By: PG&E's Electric Risk Mgmt & Analytics: Risk and Data Analytics (RaDA) Team

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Rev	Date	Comment
1		Initial Release
1.3	2026-03-03	Updates to address minor methodology changes

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1 Executive Summary

The Public Safety Power Shutoff (PSPS) Risk Model provides the dollarized risk of PSPS outages on circuit segments, including the risk associated with downstream outages. It is used as a component of the overall Outage Risk Model, which is used by the Electrical Undergrounding Plan (EUP) project for prioritizing high risk circuit segments for undergrounding. The PSPS Risk model is a deterministic mathematical model derived from the customer-experienced outage risk on each circuit segment. In order to reflect the full risk (and thus the value of undergrounding) for each circuit segment, the model incorporates several factors: the segment's historical likelihood of appearing in a PSPS event polygon, its exposed length in miles, the geometry of both its upstream and downstream circuit segments, and the customer base served by all of these interrelated segments.

This model was developed to meet the requirements of SB884, which governs the EUP project. It also serves as a component of PG&E's broader strategy to mitigate wildfire risk while maintaining continuous and reliable electrical service to its customers.

2 Introduction

2.1 Model Overview

The PSPS Risk Model estimates the dollarized risk of PSPS outages at the circuit segment level, accounting for both direct customer impacts and the risk of causing downstream outages. The model uses outage durations that include patrol and restoration time as provided by the PSPS team, and it incorporates only PSPS events with a distribution footprint (Dx-only or Dx+Tx), excluding transmission-only events. The seven-year lookback period combines the formal PSPS Lookback Study (2018–2022) with SCADA-captured PSPS events from 2023-2024, scoped under Plan C (PSPS event used for analysis as defined by the PSPS team).

The PSPS Risk Model is used as a component of the Outage Risk Model during wildfire-season planning and regulatory reporting to assess the tradeoff between wildfire mitigation and customer reliability impacts. It is a deterministic mathematical model with no machine-learning component. PSPS risk on a given circuit segment is modeled as a nonlinear function of likelihood and consequence factors. Likelihood factors include historical presence within a spatiotemporal PSPS event polygon, minutes of resulting outage, miles of exposed circuit, and circuit geometry both upstream and downstream. Consequence factors include the number of customers affected by historical outages, customer segmentation factors, and the service cost for each affected customer.

Along with the EPSS Risk Model, the PSPS Risk Model is one of two models that feed into the Outage Risk Model. These models evaluate the risk associated with circuit segments using a circuit-based, “source-based” approach, quantifying the dollar value of risk that could be avoided if a circuit segment were undergrounded and thereby removed from exposure to the two preventative service-outage programs.

2.2 Document Suite

This document is part of the documentation suite for the Outage Risk Model developed in support of the EUP project:

- Outage Risk Model v1.1 Documentation
- PSPS Risk Model v1.3 Documentation (this document)
- EPSS Risk Model v1.3 Documentation

3 PSPS Risk Model Derivation

This section outlines the PSPS Risk Model, which serves as an input to the broader Outage Risk Model. The current model provides a dollarized risk and outage prediction on each circuit segment based on their historical likelihood of being present in a geo-temporal PSPS event polygon. The model outputs three key predictions for each circuit segment:

1. Dollarized PSPS Circuit-Based Risk
2. Annual PSPS Customer Minutes of Interruption (CMI)
3. Annual PSPS Likelihood

As stated in previous sections, the PSPS Risk Model is a deterministic mathematical model. It uses a rule-based formulation to compute the expected number of sustained outages based on circuit geometry, aggregated customer value-of-service data, and historical PSPS event polygons. The PSPS Risk Model does not involve simulation, machine learning, or statistical inference.

It is also a nonlinear model. Unlike customer-experienced risk, which can be expressed as the product of a separable Likelihood model and Consequence model, there is no possible separable standalone Consequence model for PSPS risk. Instead, Derived Consequence may be used as an equivalent.

3.1 Customer-Experienced vs Circuit-Based Risk

To understand the PSPS Risk model, it is important to make a distinction between *in situ* or "customer-experienced" risk versus source-based or "circuit-based" risk. Many PG&E circuit risk models predict risk from the customer's point of reference, at the location of a potential outage. This *in situ* risk's core relationship is simply the likelihood of an outage event at the location of a given circuit segment multiplied by the dollarized consequence of loss of service to the customers served by that segment. Therefore, the basic customer-experienced risk formula is:

$$Risk_{customer-experienced} = Likelihood \times Consequence$$

This relationship quantifies the predicted loss of value for a given circuit segment. If outages across circuit segments were entirely independent, this same relationship would also express the risk of each circuit segment as a distinct *source* since each segment could only be serviced-energized by its own unique risk factors.

However, circuit segment outages are *not* independent. An outage in an upstream segment will inevitably propagate to all downstream segments. Therefore, to accurately assess the risk reduction achieved by replacing or hardening any segment that may serve as a source of outages, the risk averted at downstream sites must also be factored in.

The PSPS Risk Model is designed to assign a risk value to each circuit segment as a potential *source* of outage, supporting prioritization decisions for undergrounding of circuit segments and segment portfolios. Within a PSPS event, it is common for a circuit segment to have

downstream segments, some included in the event region and others outside, that nonetheless experience outages due to upstream de-energization. The model attributes the customer-experienced risk of these downstream segments across their upstream segments. To avoid bias, this attribution is weighted by the length of exposed circuit upstream.

Attributing this downstream risk to upstream source segments adds nonlinearity to the model. Accordingly, risk is calculated holistically as a nonlinear function of historical likelihood data, circuit geometry, event polygon geometry, and the single-circuit consequence of the circuit segment and all subsequent downstream segments.

Certain circuit segments have zero customers yet intersect PSPS polygons. While they exhibit no onsite customer-experienced risk, they can still serve as upstream sources of downstream outages. These segments are included so their downstream risk can be properly attributed within the circuit-based model.

In addition, the consequence component incorporates updated customer-segmentation practices: Road/Highway SPIDs are excluded from risk and CMI computations, and ICE 2.0 value-of-service rates are unified into one system-wide Residential rate and one systemwide Non-Residential rate (shared by Small and Medium C&I customers), with no HFTD/HFRA split.

3.2 Data Sources

The data sources for this model include:

The PSPS Lookback Study, provided by the PSPS team. This dataset provides seven years of PSPS event data such as event polygons, outage duration in minutes, and affected circuit segments and SPIDS. Data includes a retrospective lookback for 2018-2022 data (scoped using late-2024 PSPS guidance applied to historical weather conditions), and actual PSPS events for 2023-2024 data (scoped using live guidance at the time of each event, filtered to SCADA-enabled devices). Customer impacts are based on Plan C scoping (the most comprehensive scoping plan, including both distribution and downstream transmission impacts), filtered to Dx-only or Dx-and-Tx events.

The Wildfire Distribution Risk Model (WDRM) V4, provided by the RaDA WDRM team and updated on a three-year cycle. The WDRM is the PSPS Risk Model's source of record for circuit segment geometry.

PG&E Customer Segmentation Data, which identifies the customer service classes and critical customer factors associated with the SPIDs affected by PSPS events.

3.3 Customer-Experienced PSPS Risk Derivation and Example Calculations

The derivation of the full circuit segment mileage-weighted PSPS Risk Model begins with the customer-experienced risk of a single event on a single circuit segment. This is defined as the circuit segment's likelihood of outage (in minutes) for that single event, multiplied by the customer consequence.

Specifically, the PSPS likelihood for a circuit segment during a single event is modeled as the total outage minutes for that event divided by the seven-year PSPS lookback period. In practice, this is implemented by summing all CMI associated with the event and dividing by the

product of the number of SPIDs involved and the seven-year lookback period. This formulation simplifies the coding process while preserving the temporal scaling of the model.

$$PSPS\ Likelihood_{CS,single\ event} = \frac{Outage\ Minutes\ on\ CS}{PSPS\ lookback\ period} = \frac{1}{7years * N_{SPIDS\ on\ CS}} \sum_{SPIDS\ on\ CS} CMI$$

Concurrently, customer-experienced consequence on a single circuit segment (CS) is calculated as the number of SPIDs served by the circuit segment, multiplied by the value of service per CMI ($/CMI) as defined by ICE 2.0 calculator for each SPID's customer class (e.g. residential, small C&I, medium/large C&I), and further adjusted by a weighting factor according to the class of critical customer served at that SPID.

$$Consequence_{CS} = \sum_{SPIDS\ on\ CS} CMI\ cost\ by\ customer\ class * Critical\ customer\ weighting\ factor$$

Thus, the customer-experienced risk on a single circuit segment, for a single event, is the product of the annual likelihood of that event on that circuit segment and the consequence experienced on that circuit segment.

$$Risk_{customer-experienced,CS,single\ event} = PSPS\ Likelihood_{CS,single\ event} \times Consequence_{CS}$$

3.4 By-Count Circuit-Based PSPS Risk Derivation and Example Calculations

If a given circuit segment has multiple upstream segments (possibly including itself) that are affected by a PSPS event, each of these segments is considered an equal *source* of risk, even if the circuit segment itself is the site of the outage. Refactoring the site-based customer risk to a source-based risk model requires attributing the customer-experienced risk equally to all directly affected upstream circuit segments, including the segment itself if directly impacted. This is done by allocating equal proportions of risk to each affected upstream segment. The equations to derive circuit-based risk from customer-experienced risk, based on segment counts, are as follows:

$$Circuit\ Segment - based\ risk\ for\ a\ single\ event, by\ segment\ count:\ R_{CS,e,SB} = \sum_i \frac{1}{N_{i,A}} R_{i,e}\ ;$$

Core spreading may traverse **up to 11 upstream generations** when allocating downstream risk to upstream segments. In cases where a CS/event pair appears in the customer-experienced dataset but does not appear in the upstream ancestor tree, the model applies a

noncore fallback, assigning the event's circuit-segment-level risk directly to that CS without upstream spreading.

When mileage information is required for attribution and multiple mileage measures are available, the model applies a **mileage fallback hierarchy**, using the best available mileage in the following order:

1. Intersection HFTD/HFRA miles
2. Intersection total miles
3. PRIOH HFTD/HFRA miles
4. PRIOH total miles
5. Default of 0 miles

$$Total\ risk\ on\ CS\ for\ all\ events\ in\ lookback\ period = \sum_E R_{CS,E,SB} = \sum_E \sum_i \frac{1}{N_{i,A}} R_{i,e}$$

Where:

$i = set\ of\ all\ downstream\ segments, including\ CS$
$E = set\ of\ all\ events\ that\ directly\ affected\ CS\ during\ lookback\ period$
$R_{CS,e} = Customer\ Experienced\ risk\ for\ single\ CS\ and\ event\ (i.e.\ Likelihood\ x\ Consequence)$
$N_{CS,A} = Number\ of\ ancestors\ of\ CS\ within\ single\ PSPS\ event\ polygon, including\ CS\ itself$

To illustrate circuit-based-based/ risk by circuit count, consider this example calculation of risk from a single PSPS event illustrated in Figure 1.

Figure 1: Example set of PSPS-affected circuit segments

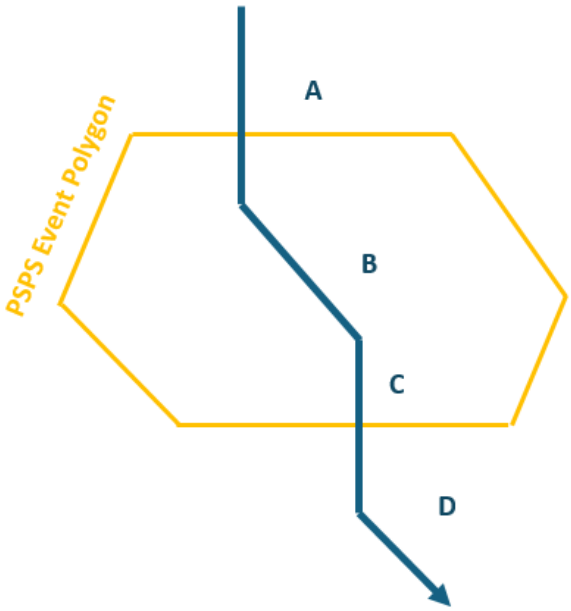


Table 1 Example set of PSPS-affected circuit segments based on Figure 1

CS	$R_{CS,e}$	$N_{CS,A}$	Risk Source Attribution	Circuit-based/ Source-based risk on Segment
A	R_A	1	A has no upstream ancestors in the event. The only source of outage on A is A's own presence in the PSPS event polygon.	$R_A + \frac{1}{2}R_B + \frac{1}{3}R_C + \frac{1}{3}R_D$
B	R_B	2	The source of outage risk on B is equally attributed to A's outage and B's outage within the polygon.	$\frac{1}{2}R_B + \frac{1}{3}R_C + \frac{1}{3}R_D$
C	R_C	3	The source of outage risk on C is equally attributed to A's outage, B's outage, and C's own outage within the polygon.	$\frac{1}{3}R_C + \frac{1}{3}R_D$
D	R_D	3	The source of outage risk on D is equally attributed to outages on A, B, and C. D itself is not a source of outage risk because it lies outside the event polygon.	0

3.5 Circuit-Based Mileage-Weighted Circuit-Based Risk Derivation and Calculations

A simple method for attributing customer-experienced PSPS risk to upstream circuit segments is to distribute each circuit segment's in situ risk equally across all affected segments. However, this introduces bias by treating all circuit segments as equal contributors to risk, when physical geometry also influences the risk each segment carries. Consider a system with an especially long circuit segment, this segment is more vulnerable to inclusion in a PSPS event simply because its length provides a larger exposure surface. From a physical standpoint, circuit segment risk can be modeled as a function of circuit segment length.

When attributing the *in situ* risk of a circuit segment to its upstream source segments, a more accurate approach is to distribute that risk proportionally based on the total length of affected upstream segments, rather than simply by segment count.

To account for the bias introduced by equal attribution, the PSPS Risk Model used in the Outage Risk Model applies a mileage-weighted circuit-based approach. The model's equations are as follows:

$$Circuit-based\ risk\ for\ a\ single\ event, mileage\ weighted:\ R_{CS,e,MW} = \sum_i \frac{M_i}{M_{i,A}} R_{i,e}\ ;$$

$$Total\ risk\ on\ CS\ for\ all\ events\ in\ lookback\ period = \sum_E R_{CS,E,MW} = \sum_E \sum_i \frac{M_i}{M_{i,A}} R_{i,e}$$

Where:

$M_{CS,A}$
$= Miles\ of\ exposed\ ancestor\ CS\ within\ event\ polygon, including\ CS'\ own\ affected\ mileage$

To illustrate mileage-weighted circuit-based risk, consider the following example calculation for attributing circuit-based risk for a single event illustrated in Figure 2.

Figure 2: Example set of PSPS-affected circuit segments, including miles of intersection with the PSPS event polygon

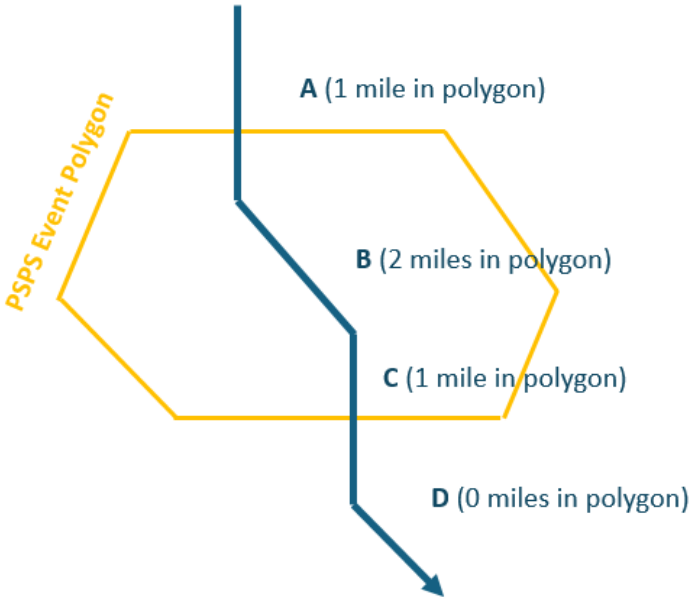


Table 2 Example set of PSPS-affected circuit segments, including miles of intersection with the PSPS event polygon based on Figure 2

CS	$R_{CS,e}$	M_{CS}	$M_{CS,A}$	Risk Source Attribution	Circuit-based/Mileage-Weighted risk on Segment
A	R_A	1	1	A has no upstream ancestors in the event. The only mile of exposed outage source for A is its own mileage within the polygon.	$\frac{1mi}{1mi}R_A + \frac{1mi}{3mi}R_B + \frac{1mi}{4mi}R_C + \frac{1mi}{4mi}R_D$
B	R_B	2	3 (1+2)	The source of outage risk on B is attributed equally across all miles of exposed circuit within the polygon: A's mile of outage and B's two miles of outage within the polygon.	$\frac{2mi}{3mi}R_B + \frac{2mi}{4mi}R_C + \frac{2mi}{4mi}R_D$
C	R_C	1	4 (1+2+1)	The source of outage risk on C is attributed equally across all miles of exposed circuit within the polygon: A's and B's three combined exposed miles, and C's own exposed mile within the polygon.	$\frac{1mi}{4mi}R_C + \frac{1mi}{4mi}R_D$
D	R_D	0	4 (1+2+1)	Segment D itself is not a source of outage risk because its mileage lies outside the event polygon. The source of outage risk on D is attributed equally to the combined four exposed mileage on A, B, and C.	$\frac{0mi}{4mi}R_D$ $(= 0)$

In practice, this mileage-weighted calculation produces the **circuit-segment risk per event**, representing the attributed PSPS risk for each CS x event pair under both the core and noncore pathways. This circuit-segment risk per event serves as the foundational output of the mileage-weighted model and is subsequently used to construct all downstream circuit-level annualized metrics.

3.6 Annual PSPS CMI

The annual PSPS CMI of a given circuit segment is calculated by summing the CMI experienced on that segment over the lookback period, divided by the number of years in that period (i.e., seven years):

$$Annual\ PSPS\ CMI = \frac{1}{7years} \sum_{events,SPIDS\ on\ CS} CMI$$

3.7 Annual PSPS Likelihood

The annual PSPS Likelihood is the annual CMI on a CS divided by its number of SPIDs:

$$Annual\ PSPS\ Likelihood = \frac{1}{7years * N_{SPIDS\ on\ CS}} \sum_{events, SPIDS\ on\ CS} CMI$$

3.8 PSPS Derived Consequence

This circuit-based, mileage-weighted PSPS Risk Model is a summative nonlinear function of a circuit's linear customer-based risk and that of its affected neighboring circuit segments. Due to the interdependence of risk across a series of circuits, it is not possible to define a circuit segment's consequence independently from its likelihood and the customer-experienced risk of its neighbors. In cases where a standalone measure of PSPS circuit segment-based Consequence is needed, use the Derived Consequence, which calculates consequence as a function of risk and known likelihood:

$$Consequence_{derived} = \frac{Risk_{circuit\ segment-based}}{Likelihood}$$

4 Model Usage

4.1 Model Usage

The PSPS Risk Model is applied at the circuit segment level. It is used as a component of the Outage Risk Model used during wildfire season planning and regulatory reporting to assess tradeoffs between wildfire mitigation and customer reliability impacts.

4.2 Shelf Life

The PSPS Risk Model is structured around the Wildfire Mitigation Plan (WMP) reporting cycle and is refreshed in conjunction with new releases of the WDRM. With each Outage Program Risk Model version, the inputs will be updated accordingly with the WDRM and input data.

5 Appendix

5.1 Special Case: PSPS Risk on Circuit Segments with No Customers

Certain circuit segments are present exclusively in the geometric (polygon) dataset and do not appear in any other customer data sources used in the PSPS Risk Model due to having zero customers. This is expected behavior, as the PSPS circuit-based risk is derived from customer-experienced risk; these customer-free circuit segments exhibit CMI across all upstream and downstream paths. Their exclusion from customer-experienced risk models is sound, because there is no customer-experienced risk at the location of those circuit segments.

However, segments without customers can be upstream sources of risk for downstream outages, if the customer-free segment is directly affected by a PSPS event (i.e., its geometry intersects with a PSPS event polygon). I n these cases, customer-free circuit segments are reintroduced to the model so that they can have downstream risk attributed to them, despite their lack of customer-experienced risk and CMI.

These customer-free circuit segments are included in this circuit-based PSPS model as a special case, because outages on these circuits can be the source of significant downstream risk even if they are not the site of customer-experienced service discontinuity.

5.2 PSPS Critical Customer Weighting

The PSPS Outage Risk Model incorporates critical customer weighting by applying severity-based multipliers (1, 2, 5, or 100) to each customer's CMI and VoS. These weighted values are then used to proportionally allocate the total dollarized PSPS risk across the system. Rather than inflating the overall risk, this approach redistributes the existing risk "pie" to give larger shares to customers with higher criticality. This ensures that the model reflects the relative impact of outages on the most vulnerable customer segments, thereby prioritizing mitigation efforts where the consequences are greatest.

The weighting framework was developed in 2022 by subject matter experts and approved by PG&E's Wildfire Risk Governance Steering Committee (WRGSC). It was formally incorporated into the PSPS methodology to support risk prioritization for customers and circuits most impacted by PSPS events. In 2025, internal model comparisons and discussions led to refinement in how customer types were classified. Rather than reducing weights, the trend was to elevate certain customer types, such as TT1 and TT2, to the "Extreme" category, recognizing their role as Public Safety Partners. While some test scenarios explored adjusting weights, these were not adopted in the final methodology. The emphasis remained on reinforcing the importance of critical customers in risk modeling, ensuring that their prioritization was both equitable and operationally sound.

Table 3 PSPS Critical Customer Weighting Overview summarizes the meaning of each weight, listing the specific critical customer types used in the PSPS Outage Risk Model, and provides examples of customer types that fall into each category. These classifications ensure that risk is redistributed, and not inflated, based on customer criticality, allowing the model to prioritize mitigation efforts where the consequences of outages are most severe.

Table 3 PSPS Critical Customer Weighting Overview

Weight	Critical Customer Type	Description & Examples
100	CC1, CE1, TE1, TE2, TT1, TT2	Extremely critical infrastructure, public safety partners or provides emergency services (e.g., critical care facilities, emergency services, telecom hubs, transportation terminals, etc.)
5	Life Support Low Income, Medical Baseline Low Income, Life Support	Medically vulnerable and low-income customers (e.g., life support low income, medical baseline low income, etc.)
2	CC2, CC3, CE2, CE3, EE, PR1, SC1, SC2, SC3, SE1, SE2, SE3, Medical Baseline, Self-Identified Vulnerable, Low Income, AFN (Access and Functional Needs)	Moderately vulnerable groups (e.g., medical baseline, self-identified vulnerable, low income, AFN, etc.)
1	Other	Baseline or regular customers without identified critical attributes

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP021

KDMM FORMULAS

Workpaper 021
Pacific Gas and Electric Company
Electrical Undergrounding Program
KDMM Formulas

Description: The table below outlines the methodology used to calculate Key Decision-Making Metrics (KDMMs) and how they are aggregated to both the system and portfolio levels. Since consequence values for individual KDMMs are not cumulative, the aggregation of consequence is derived using a combination of risk and likelihood rather than simple summation of consequence.

Key	KDMM/Core Capability Data Point	Formula for System Aggregation	Formula for Portfolio-Level Aggregation (a)
A	Overall Utility Risk	= Sum of all Overall Utility Risk on Entire System	= Sum of Overall Utility Risk for all Circuits with a confirmed EUP Circuit Segment
B	Ignition Risk	= Sum of all Wildfire Risk on Entire System	= Sum of all Wildfire Risk for all Circuits with a confirmed EUP Circuit Segment
C	Ignition Consequence	= Sum of all Wildfire Risk on Entire System / Sum of all Wildfire Likelihood on Entire System	= Sum of all Wildfire Risk for all Circuits with a confirmed EUP Circuit Segment/ Sum of all Wildfire Likelihood for all Circuits with a confirmed EUP Circuit Segment
D	Ignition Likelihood	= Sum of all Wildfire Likelihood on Entire System	= Sum of all Wildfire Likelihood for all Circuits with a confirmed EUP Circuit Segment
E	Outage Program Risk	= Sum of EPSS Risk on Entire System + Sum of PSPS Risk on Entire System	= Sum of all EPSS Risk for all Circuits with a confirmed EUP Circuit Segment + Sum of all PSPS Risk for all Circuits with a confirmed EUP Circuit Segment
E	EPSS Risk	= Sum of EPSS Risk on Entire System	= Sum of all EPSS Risk for all Circuits with a confirmed EUP Circuit Segment
E	PSPS Risk	= Sum of PSPS Risk on Entire System	= Sum of all PSPS Risk for all Circuits with a confirmed EUP Circuit Segment
F	Outage Program Consequence	= Sum of all Outage Program Risk on Entire System / Sum of all Outage Program Likelihood on Entire System	= Sum of all Outage Program Risk for all Circuits with a confirmed EUP Circuit Segment / Sum of all Outage Program Likelihood for all Circuits with a confirmed EUP Circuit Segment
F	EPSS Consequence	= Sum of all EPSS Risk on Entire System/ Sum of all EPSS Likelihood on Entire System	= Sum of all EPSS Risk for all Circuits with a confirmed EUP Circuit Segment / Sum of all EPSS Likelihood for all Circuits with a confirmed EUP Circuit Segment
F	PSPS Consequence	= Sum of all PSPS Risk on Entire System/ Sum of all PSPS Likelihood on Entire System	= Sum of all PSPS Risk for all Circuits with a confirmed EUP Circuit Segment / Sum of all PSPS Likelihood for all Circuits with a confirmed EUP Circuit Segment
G	Outage Program Likelihood	= Sum of all EPSS Likelihood on Entire System + Sum of all PSPS Likelihood on Entire System	= Sum of all EPSS Likelihood for all Circuits with a confirmed EUP Circuit Segment + Sum of all PSPS Likelihood for all Circuits with a confirmed EUP Circuit Segment
G	EPSS Likelihood	= Sum of all EPSS Likelihood on Entire System	= Sum of all EPSS Likelihood for all Circuits with a confirmed EUP Circuit Segment
G	PSPS Likelihood	= Sum of all PSPS Likelihood on Entire System	= Sum of all PSPS Likelihood for all Circuits with a confirmed EUP Circuit Segment

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP022

PUBLIC CONTACT WITH INTACT ENERGIZED ELECTRIC EQUIPMENT (PCEEE) RISK

Public Contact With Intact Energized Electric Equipment (PCEEE) Risk

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Public Contact With Intact Energized Electric Equipment (PCEEE) Risk White Paper

1. Overview of PCEEE

1.1. Overview

Public Contact with Intact Energized Electric Equipment (PCEEE) is a distinct electric safety risk recognized in PG&E's 2024 Risk Assessment and Mitigation Phase (RAMP) framework. It refers to the risk of serious injury or fatality to members of the public or third-party contractors resulting from interaction with intact, energized electric assets, where the event does not originate from asset failure.[1] Although PCEEE events occur infrequently relative to other operational hazards, they are characterized by high severity outcomes, typically involving electrocution or severe electrical injury.

PCEEE focuses on public exposure to energized infrastructure outside of utility control, emphasizing prevention of unintended or unauthorized contact. This separation supports clearer accountability, more accurate risk modeling, and more effective regulatory oversight. Note that contractor safety and employee safety risks are not included in this risk category.

PCEEE represents a key public safety risk used to calculate Public Safety Benefit in PG&E's Wildfire Benefit Cost Analysis (WBCA) model. See Section 3.1.2 of Attach. B, WP006 (WBCA Whitepaper) for further discussion of PG&E's calculation of Public Safety Benefit.

1.2. Definition and Scope of PCEEE

In the 2024 RAMP, PG&E defines PCEEE as:

The risk of reportable serious injury or fatality to a third-party contractor[2] or member of the public from an interaction with intact PG&E electric assets that did not originate from asset failure.[3]

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1 Pacific Gas and Electric Company, 2024 Risk Assessment and Mitigation Phase (RAMP) Application, filed May 15, 2024; California Public Utilities Commission, Safety Policy Division, Evaluation Report on PG&E 2024 RAMP Application, November 8, 2024.

2 Third-party refers to a member of the public who is a non-PG&E employee and is not a PG&E contractor (RAMP p.3-2).

3 Pacific Gas and Electric Company, 2024 Risk Assessment and Mitigation Phase (RAMP) Application, filed May 15, 2024; California Public Utilities Commission, Safety Policy Division, Evaluation Report on PG&E 2024 RAMP Application, November 8, 2024.

PG&E's interpretation of this definition relies on several key assumptions:

- **Public-facing risk:** The exposed individual is not a utility employee and is not performing utility-directed work under the utility's safety management system at the time of the event.
- **Intact and energized assets:** The electrical equipment is operating as designed; the initiating event is human interaction rather than equipment malfunction.
- **Severe outcomes:** Events only include CPUC-reportable incidents, meaning fatalities or serious injuries requiring inpatient hospitalization.
- **Exclusion of other risk domains:** Reliability impacts, financial losses, wildfire consequences, and asset failures are addressed in separate risk categories.

2. Where and How PCEEE Events Occur

2.1. Affected Assets and Environments

For purposes of the Electric Undergrounding Plan (EUP), PG&E evaluates PCEEE risk associated with overhead distribution facilities and quantifies the relative risk reduction achieved on a per-mile basis for removed overhead infrastructure.

2.2. Typical Hazard Scenarios and Drivers

RAMP analysis identifies several recurring causal pathways:

- **Third-party working activities** not under utility control, such as construction, farming, or tree trimming near energized overhead lines.
- **Non-working public activity**, including inadvertent contact by individuals engaged in everyday activities.
- **Unauthorized access and vandalism**, including copper theft or intrusion into substations and electrical enclosures.
- **Vehicle or aircraft contact**, such as cranes, tall equipment, or low-flying aircraft striking overhead conductors.

These drivers are predominantly behavioral and situational, rather than environmental or climate-driven, and reflect the inherent hazard of delivering electric service in proximity to public activity.

2.3. Consequences and Public Safety Significance

By definition, PCEEE outcomes involve serious injury or fatality. Electrical contact can result in immediate death, catastrophic burns, neurological damage, or secondary

trauma from falls or fires. Although PCEEE events are low-frequency, each event represents a significant public safety outcome.

In the RAMP framework, PCEEE consequences are evaluated solely through the safety attribute of risk. As required in the Risk-Based Decision-Making Framework (RDF), monetizing the safety attribute requires using a Value of Statistical life (VSL) to convert the estimated fatalities and injuries into an equivalent value expressed in dollars.[4] Reliability, property damage, and financial impacts are excluded to avoid double counting across risk categories.

3. Conclusion

PCEEE (i.e., Public Safety Benefit or Safety Risk Reduction) is a clearly defined, high-consequence public safety risk. While PCEEE's drivers lie largely outside direct utility control, undergrounding presents an opportunity for PG&E to directly mitigate public safety risk and consequence.

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4 California Public Utilities Commission, Safety Policy Division, Evaluation Report on PG&E 2024 RAMP Application, November 8, 2024.

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP023

RADA MODELING ALGORITHMS AND METHODOLOGIES

V1 DOCUMENTATION

RaDA Modeling Algorithms and Methodologies

Version 1

Documentation



Prepared By: PG&E Risk and Data Analytics Team

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Rev	Date	Comment
0	08/27/2024	Initial Release
1	03/12/2025	Added new cover page

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Executive Summary

The Risk and Data Analytics (RaDA) team produces a variety of event probability, consequence, and risk models in support of risk mitigation work prioritization and planning. As these models have evolved, the RaDA team has adopted several core algorithms and methodologies for model development and delivery. This document provides an overview of the core RaDA model development tools.

Modeling Algorithms

The RaDA team explores a variety of machine learning algorithms during event model development to determine which algorithm best suits a particular model's objectives. An overview is provided for the three model algorithms currently used by the RaDA team for production event probability models:

- Maximum Entropy (MaxEnt)
- Extreme Gradient Boosting Classification (XGBoost)
- Logistic Regression

Model Performance Metrics

Several performance and feature metrics are considered during model development to determine when predictive model performance is optimal. Overview descriptions and guidance on interpretation of results are provided for the most commonly used metrics.

Model Results Methodologies

The RaDA team probability, consequence, and risk models have been developed to support risk mitigation work prioritization and planning. Frequently, work planning teams need the RaDA model data results to be transformed to match with the particular mitigation program's planning requirements. The RaDA team has developed the following model result transform methodologies in support of mitigation program work planning requirements:

- System Hardening Circuit Segments
- Model Results Aggregation
- Model Results Compositing

Future Plans

New algorithms and methodologies are developed as needed for new model development and to fulfill new user requirements. In response to user requests, there are several new methodologies planned for the aggregation of model results to Isolation Zone, Support Structure, and Regional views.

1 Introduction

The Risk and Data Analytics (RaDA) team produces a variety of event probability, consequence, and risk models in support of risk mitigation work prioritization and planning. The RaDA team has adopted several core algorithms and methodologies for model development and delivery. This document provides an overview of the core RaDA model development tools, including:

- Modeling Algorithms used to match model objectives with machine learning capabilities.
- Model Performance Metrics used to compare and improve model performance.
- Model Results Methodologies for delivering model outputs that support user needs.

1.1 Document Suite

This document is part of the documentation suite for:

- WDRM v4 Documentation
- Wildfire Fire Consequence Model v4 Documentation
- Distribution Network Event Probability Models v4 Documentation

This document will be updated to support additional RaDA team products as they are released, including the Reliability and Public Safety Risk Models currently under development.

This document presents the shared algorithms and methodologies used for development of event probability, consequence, and risk models produced by the RaDA team.

This document provides the lay reader with a broad understanding of the applicability and use of the described algorithms and methodologies. The document does not provide comprehensive detailed mathematical or scientific descriptions.

2 Modeling Algorithms

The RaDA team explores a variety of machine learning algorithms during event model development to determine which algorithm best suits a particular model's objectives. Currently, three model algorithms are used by the RaDA team for production event probability models:

- MaxEnt
- Extreme Gradient Boosting Classification (XGBoost)
- Logistic Regression

The following sections provide overviews of each of the three modeling algorithms and their applicability to RaDA event probability models.

2.1 MaxEnt

Many event probability models use a maximum entropy algorithm, a modeling technique developed by computer scientists at AT&T research and Princeton University for the modeling of ecological prevalence of species. RaDA team event probability models using the maximum entropy approach have been implemented using MaxEnt software.

2.1.1 Overview

MaxEnt probability models are trained on outage locations and their associated environmental and asset attribute data organized onto a set of 100m by 100m pixels that cover PG&E electrical grid. In MaxEnt terminology, event locations are *presence* observations, and the entire set of electrical grid pixels are the model *domain*. To accrue enough data to identify spatial patterns in a set of events, training data typically spans several years. Although it is possible to filter training data by coarse temporal criteria, the typical MaxEnt model is dedicated to spatial, not temporal, patterns. MaxEnt models produce raw relative values that correspond with the relative number of likely grid events by pixel location. Given known event rates, the raw relative event values can be calibrated through a logistic mapping into pixel-based event probabilities.

2.1.2 Constructing MaxEnt Models

MaxEnt delivers an approach for estimating the relative event occurrence rate given a modest number of known event locations. MaxEnt fits a statistical distribution of covariate values for event locations that is consistent with the values at known event locations, but otherwise as similar as possible to the distribution of values found among all modeled locations. The similarity criteria are enforced using a metric called the *relative information entropy* between the distributions of covariate values associated with event locations and all modeled locations. The larger relative information entropy, the more similar are the two distributions. Hence, the overall approach is referred to as a *maximum entropy* estimation of the relative event occurrence rate.

For the distribution event probability models the goal is to use MaxEnt to model the occurrence of ignition and failure/outage events using distribution asset attributes and environmental conditions as model covariates.

The MaxEnt software normalizes its input and target output variables, and therefore produces a normalized output where all predicted probabilities for the domain of a model sum to a value of 1. A scaling parameter is used to calibrate the sum of model domain outputs to match historical fire season event counts.

Maximum entropy as an optimization target has been broadly applied to many types of optimization problems. Therefore, online searches for key words such as “maximum entropy models” may yield results that are not related to the approach implemented by MaxEnt.

2.1.3 Applicability to the Event Probability Models

An important distinction between MaxEnt and many other Machine Learning classification methods is that MaxEnt is a presence-only modeling tool. A presence-only modeling approach trains a model using the locations of known events without requiring ground truth absence data – identification of locations where events cannot occur. Instead, presence-only modeling like MaxEnt compares known event location attributes with the attributes at all other locations.

At first glance, this might seem like an odd choice – whether there is an event or not on the grid is a clear criterion – however, there are several aspects of the wildfire modeling problem that benefit from the choice.

The following aspects of MaxEnt make it useful for spatially oriented contact from object event probability models:

- Contact from object events are typically environmentally driven and rely on spatial data to understand causal paths
- MaxEnt is open-source software with a robust community of users and peer review of its applications
- The MaxEnt software includes support for:
  - Spatial data sets and outputs
  - Feature generation from covariates such as interactions, hinges, thresholds, etc.
  - Regularization that adaptively down weights features that lack or degrade predictive power
  - Support to produce train and test performance metrics

2.1.4 Implementation

The MaxEnt software used for event probability model development is sourced from the Stanford Center for Conservation Biology open source library.

2.1.4.1 Model Data Preparation

There are three types of data that need to be acquired to build an event probability model using MaxEnt:

- Asset attributes for geometry and classifying characteristics such as material, size, age, etc.
- Known event locations used for training, testing, and validating models
- Covariate Values that change over time and space

Some covariates, such as weather and other time-based variables, require derivation, as the data should represent the conditions under which known events have occurred. To support multi-year event datasets, the derivation typically requires statistical extracts of multi-year sequences of weather data. Typical derivations for time-based data such as wind speed and fuel moisture include average values, percentile values, counts of days beyond threshold limits, etc.

All collected data is assigned by its location onto a common set of 100m square pixels that overlay the geometry of the distribution network grid. The grid pixel values are stored into raster datasets for MaxEnt modelling.

2.1.4.2 Iterative Model Process

The process for building an event probability model using MaxEnt is similar to that used for most machine learning (ML) technologies. MaxEnt models are built through an exploratory process managed by a data scientist, iteratively configuring and evaluating candidate models.

A MaxEnt model run configuration specifies options like:

- Source pixel raster datasets
- Attributes and covariates available for modeling events
- Event training, testing, and validation datasets
- Options for model fitting techniques and output scaling
- Options for model evaluation

Once a candidate model has been built from a configuration, MaxEnt produces a variety of reports to assist with model performance evaluation, including:

- Model output evaluation
- Predicted event probabilities
- Model performance metrics for train and test event data
- Model fit performance
- Jackknife charts
- Dropped known events due to insufficient attribute or covariate values

2.2 Extreme Gradient Boosting Classification (XGBoost)

Most distribution equipment asset event probability models use XGBOOST, a boosted decision tree modeling algorithm.

2.2.1 Overview

XGBoost is a powerful machine learning algorithm used for predictive modeling. XGBoost combines multiple weak models, typically decision trees, to create a combined, robust predictive model. The combined model is created using gradient boosting, which iteratively creates new combined model configurations to correct prediction errors produced by previous models.

Key features of XGBoost include:

- Handling of missing values – a common issue for real world data sets.
- Fast and efficient execution on large data sets
- Often provides superior performance against alternative algorithms.

2.2.2 Applicability to the Event Probability Models

The distribution equipment asset event probability models are classification problems and therefore best solved using a classifier modeling algorithm. Using a decision tree-based classifier algorithm provides model feature interpretability through which feature causality can be confirmed by Subject Matter Experts (SMEs). While a single tree model might work well for small data sets, tree-based classifier algorithms tend to overfit larger training data sets like those used for the event probability models, reducing predictive power against novel data sets. As a result, combinations of multiple tree models are typically used for large data sets.

There are two common approaches for combining tree models, bagging and boosting. Bagging algorithms train multiple decision tree models in parallel, while boosting trains models serially. Bagging, or parallel modeling, does not resolve the overfit issues experienced with single tree models. Boosting, which includes a process for pruning out specific tree models, is typically able to minimize model overfit by iteratively training to the residual error produced by its prior tree.

Another advantage for model boosting is that it produces better performance on imbalanced training data sets with very few actual events in comparison to the number of non-events.

There are multiple boosting algorithms available, such as:

- Adaptive boosting (Adaboost)
- Gradient Boosting (GB)
- XGBoost

Adaboost is a basic boosting algorithm and use decision stumps, which are decision trees based on a single feature, to compare performance to determine relative feature importance. Gradient Boosting works similarly to AdaBoost but uses fully trained decision trees rather than stumps. XGBoost follows the same algorithm as Gradient Boosting but uses advanced regularization techniques to suppress weights, prevent overfitting, and enhance its performance against novel data set. Through RaDA team model development research, XGBoost has been selected for building the distribution event probability models.

2.2.3 Implementation

As of document publication, XGBoost 1.7.6 is used for model development.

2.2.3.1 Model Data Preparation

There are three types of data that need to be acquired to build an event probability model using XGBoost:

- Asset attributes for geometry and classifying characteristics such as material, size, age, etc.
- Known event locations used for training, testing, and validating models
- Covariate Values that change over time and space.

Some covariates, such as weather and other time-based variables, require derivation, as the data should represent the conditions under which known events have occurred. To support multi-year event datasets, the derivation typically requires statistical extracts of multi-year sequences of weather data. Typical derivations for time-based data such as wind speed and fuel moisture include average values, percentile values, counts of days beyond threshold limits, etc.

Spatial data, like weather data, is assigned to an asset for XGBoost from a common set of 100m square pixels that overlay the geometry of the distribution network grid.

2.2.3.2 Iterative Model Process

The process for building an event probability model using XGBoost is similar to that used for most ML technologies. XGBoost models are built through an exploratory process managed by a data scientist, iteratively configuring and evaluating candidate models.

A XGBoost model run configuration specifies options like:

- Source datasets
- Attributes and covariates available for modeling events
- Event training, testing, and validation datasets
- Options for model hyperparameters to control regularization and prevent model overfit

Once a candidate model has been built for a configuration, its performance is evaluated using:

- Predicted event probabilities
- Model performance metrics for train and test event data
- Model feature importance
- SHAP plots

2.3 Logistic Regression

2.3.1 Overview

A logistic regression model predicts the probability of discrete outcomes from a set of covariate inputs. A discrete outcome can be any set of ordinal values, such as:

- Yes/No
- True/False
- High/Medium/Low
- Ignition/No Ignition

For any given set of inputs, a logistical regression model will assign a probability for each possible discrete outcome.

Logistic regression models are structured so that the log of the odds of each outcome is a linear combination of the covariate data, which means that once the "log-odds" transform is applied, the model is fit as a standard multiple linear regression. The probability that a binary variable y has a specific outcome given a matrix of all covariate values associated with all observations the binary variable is a logistic function over all covariates with the form:

$$p(y = 1|X) = \frac{1}{1 + e^{-\beta_0 + \sum_{i=1}^{m} \beta_i x_i}}$$

Where:

Variable	Description
P(y=1|X)	Probability that an input event is associated with a modeled outcome
β_i	Covariate correlation coefficients
B_0	Covariate correlation coefficient mid-point
i	Covariate index
m	Number of covariates
X	Covariates matrix
x_i	Covariate vector of values

Logistical regression optimizes a set of logistical functions for each covariate. A generic 1-dimensional logistic function is presented in the *Figure 1*. The y-axis is the probability of the desired binary outcome (True, Yes, 1, etc.) and the x-axis represents the numerical values of one of the input covariates. In this example covariate values below -2 are associated with very low probability outcomes and values above 2 are associated with very high probability outcomes. The function assigns probability value of 0.5 (50/50 odds) for the desired outcome at the midpoint of the curve located at a covariate value of 0.

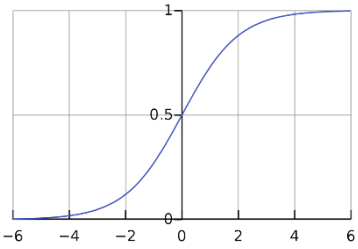


Figure 1 - 1-Dimensional Logistic Function

During the optimization of the logistical regression model, the location of the mid-point 0.5 value along the x-axis can also shifted to the left or right, formulaically expressed as $-\beta_0/\beta_i$. Likewise, the transition steepness of the y-axis from 0.0 to 1.0 can be rescaled during optimization, formulaically expressed as $1/\beta_i$.

2.3.2 Applicability to the Event Probability Models

The RaDA team uses logistical regression modeling to develop the Probability of Ignition given Outage Model, p(i|o), to predict the binary probability of whether an ignition event has occurred as the result of an electrical equipment asset failure or outage event. The model is trained with a data set of historical outage events for which includes a binary indicator of whether an ignition event also occurred. The outage data is combined covariate inputs for weather, fuel, and vegetation conditions as well as the type of failure that initiated the outage to construct the predictive model for probability of ignition given an outage.

2.3.3 Implementation

The DEPM v4 Probability of Ignition given Outage Model was developed using the scikit-learn machine learning framework, written in Python. The details of the modeling process, the model fit, and its predictive performance are discussed in Distribution Network Event Probability Models v4 Documentation.

3 Model Performance Metrics

Several performance and feature metrics are used when evaluating risk and event probability models as fit for purpose. The following sections provide an overview of the most commonly used model performance and feature metrics considered by the RaDA team.

3.1 Model Performance Metrics

Model performance metrics are used to gain insight into how a model performs on data its algorithm hasn't been exposed to during model development. Typically, an out-of-sample test data set is withheld from the data gathered for model training. After fitting a candidate model using a machine learning algorithm, the candidate is exercised to generate model predictions for the test data set. The candidate model predictions are compared against the actual test data set outcomes to produce performance metrics. The performance metrics commonly used by the RaDA team metrics used for evaluating machine learning models are:

- Receiver Operating Characteristic Area Under the Curve (ROC AUC)
- Precision-Recall Curves and Average Precision
- Top 20% Concentration Factor

The distribution event modeling framework produces probability values. The metrics described in the following section support the review of model performance across a full range of probability thresholds for determining event outcomes without the need to compute performance results at a specific probability threshold.

A Confusion Matrix, as shown in *Figure 2*, is used to understand model performance at a particular probability threshold. The Confusion Matrix compares the probabilities predicted by the model to the actual real-world outcome on an out-of-sample test data set. The probability decision threshold is used to determine whether a model probability value indicates a predicted event has occurred or not. Each prediction/test set event pair will fit into one of four Confusion Matrix outcome categories:

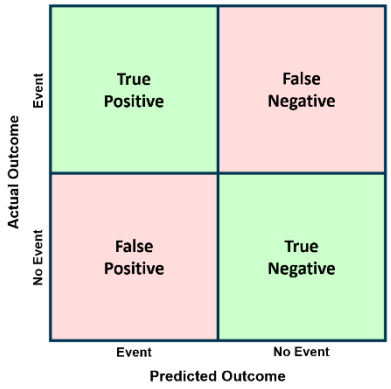


Figure 2 - Confusion Matrix

Table 1 - Confusion Matrix Outcome Categories

True Positive	Event predicted for an actual event
True Negative	No event predicted when there was no actual event
False Positive	Event predicted when no actual event occurred
False Negative	No event predicted when there was an actual event

The Confusion Matrix definitions are the foundation for understanding the model performance metrics described in the following sections.

3.1.1 Receiver Operating Characteristic Area Under the Curve (ROC AUC)

The Receiver Operating Characteristic Area Under the Curve (ROC AUC) measures the tradeoff between capturing True Positives and misclassifying False Positives across the range of thresholds for the predicted probabilities.

Figure 3 shows a sample ROC Curve showing the relationship between the True Positive Rate, also known as recall, and the False Positive Rate, for a given probability decision threshold. For a binary classification such as event / no event, rates are calculated as:

$$TPR_a = {TP_a}/{(TP_a + FN_a)}$$

$$FPR_a = {FP_a}/{(FP_a + TN_a)}$$

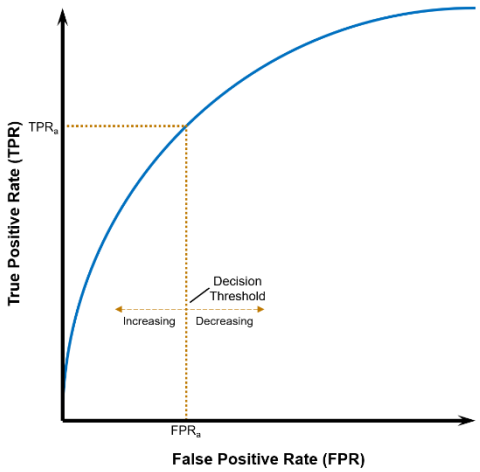


Figure 3 - Example ROC Curve

where:

a	Probability decision threshold
FN	False Negative – predicted no event where event occurred
FP	False Positive – predicted event where no event occurred
FPR	False Positive Rate
TN	True Negative – predicted no event where no event occurred
TP	True Positive – predicted event where event occurred
TPR	True Positive Rate, also know as Recall

Notice that the highest probability threshold occurs where the x- and y-axis meet. This portion of the chart shows the TPR and FPR for the highest probability values since only the highest probability values exceed that threshold.

Figure 4 shows the relationship between ROC and AUC. A ROC that renders as straight diagonal line has an area under the curve, or AUC, of 0.5 and indicates that a model algorithm cannot differentiate between events and non-events across all probability thresholds. In other words, the model performance is no better than random guessing. An ROC curve above the diagonal indicates that a model performs better than random guessing. The steeper the vertical start of the and the flatter the horizontal end of the ROC curve, the higher the AUC and the better a model is at predicting true positives while minimizing false positives for the highest probability thresholds.

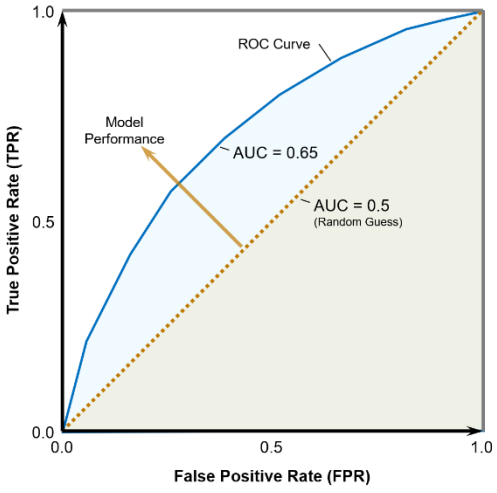


Figure 4 - Example ROC AUC

3.1.2 Precision-Recall Curves and Average Precision

The training data sets for equipment asset event probability models are highly imbalanced, meaning that there are very few event occurrences against a very large number of non-events. Such an imbalance will often lead to an ROC curve that gives too much credit for True Negatives, where an event did not occur and the proposed algorithm predicts no event. True Negatives represent the overwhelming majority of predictions for the event probability models, so it is important to consider the underrepresentation of False Negatives where an event occurred and the proposed algorithm predicts no event. Precision-Recall curves can provide insight into missed event underrepresentation.

Precision-Recall curves measure the tradeoff between converting False Negatives into True Positives at the expense of increasing False Positives. Precision and Recall are calculated across the same range of probability thresholds used to produce the ROC curve (*Figure 3*).

$$Precision_a = {TP_a}/{(TP_a + FP_a)}$$

$$Recall_a = {TP_a}/{(TP_a + FN_a)}$$

where:

a	Probability decision threshold
FN	False Negative – predicted no event where event occurred
FP	False Positive – predicted event where no event occurred
TN	True Negative – predicted no event where no event occurred
TP	True Positive – predicted event where event occurred
Precision	Fraction of True Positives against positive predictions, true or false
Recall	Fraction of True Positives against all positives, also known as True Positive Rate

Figure 5 presents a typical Precision-Recall curve. In this chart, to achieve 20% Recall (also known as True Positive Rate, Precision is reduced to 3.8%. Note that as Precision increases to account for more True Positive results, the Recall declines as the number of False Positive results increases. Therefore, a model that produces the steepest initial downward slope of preferable.

Average precision summarizes the precision-recall curve by calculating the weighted average precision across the entire range of probability prediction thresholds. The weight is the increase in recall from the previous threshold. This value is not interpolated or calculated using the trapezoidal rule with the Area Under the Precision Recall Curve, which can be overly optimistic. It is computed using the Average Precision Score method from scikit-learn, a Python machine-learning library.

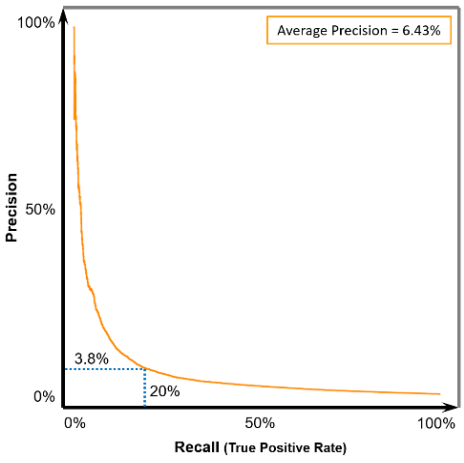


Figure 5 - Example Precision-Recall Curve

3.1.3 20% Concentration Factor

Ultimately, the Distribution Event Probability Models, in conjunction with the Wildfire Consequence Model, are used to prioritize future wildfire mitigation work. Wildfire mitigation work planning tends to consider only the riskiest top 20% of all potential locations on the distribution grid. Therefore, a useful metric for understanding how a model will influence mitigation spend efficiency is to consider a 20% Concentration Factor, which measures how many actual distribution event locations are found in the top 20% of modeled locations when ranked in descending order of predicted event probabilities.

The Concentration Factor is calculated from:

$$Concentration\ Factor = \frac{Events_{Actual}/Events_{Total}}{Locations_{Ranked}/Locations_{Total}}$$

where:

20% Conc. Factor	Model concentration factor for top 20% of ranked locations.
$Events_{Actual}$	Number of events that occurred within the ranked list of locations
$Events_{Total}$	Number of total actual events
$Locations_{Ranked}$	Number of modeled locations considered in order of descending predicted event probability
$Locations_{Total}$	Total number of modeled locations

The 20% Concentration Factor provides insight into the effectiveness of mitigating risk for the highest priority locations or assets. The higher the concentration factor, the more likely that addressing the highest priority locations will truly address locations of significant risk. *Figure 6* provides an example where the top 20% of asset locations by ranked probability include the locations of 71% of all historical events, which equates to a very good concentration factor of 3.55. Therefore, it is likely that mitigation work to the top ranked locations will be very effective in reducing future events. On the other hand, a poor concentration factor closer to 1 would indicate that a model is only slightly better than a coin toss, and that other factors beyond model-ranked locations should be considered before performing mitigation work. Additionally, a model with a poor concentration factor is an obvious candidate for further model development.

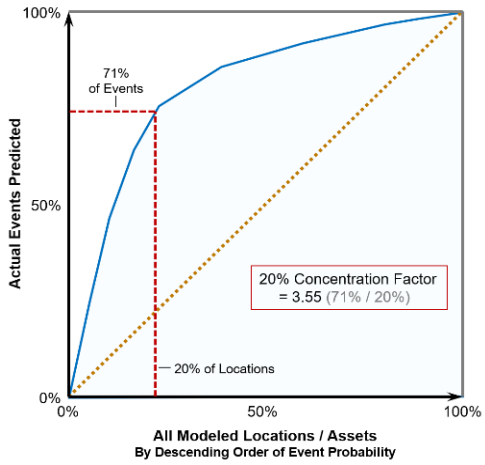


Figure 6 - Example 20% Concentration Factor

3.2 Feature Metrics

Features metrics provide insight into how helpful and influential the inputs are to a model algorithm. The metrics described in the following sections are used to help explain how a machine learning model is influenced by its covariates and hence why it predicts a particular set of probability results.

The most common feature metrics commonly used the RaDA team for evaluating machine learning models are:

- Feature Importance
- SHAP Plots

3.2.1 Feature Importance

A popular metric for evaluating a proposed machine learning model is to examine the relative importance of each input feature to the model output. Two types of feature importance are used for event probability development: permutation importance, use for MaxEnt based models, and total gain feature importance, used for XGBoost based equipment asset models.

Permutation importance for MaxEnt models is determined by sequentially replacing the historical data for each feature with randomly scrambled data and observing the subsequent difference in model performance.

Total gain feature importance is a part of the XGBoost algorithm library. The metric represents the cumulative performance gain across all the tree splits where that feature is used.

Figure 7 shows a typical feature importance chart for a model developed using eight features. The chart displays the features in order of importance to a model from most to least important. Additionally, the length of the bar for a feature represents its relative importance for the model when compared with the other features.

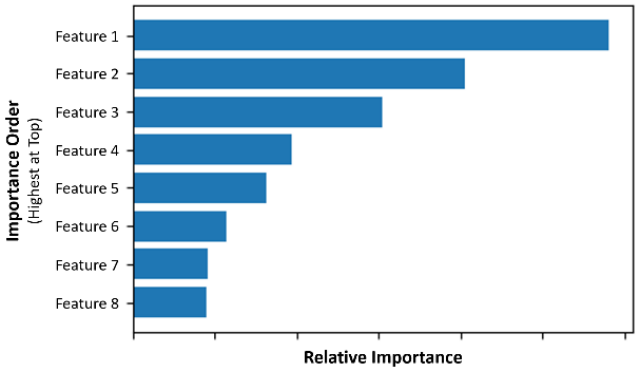


Figure 7 - Example Feature Importance Chart

3.2.2 SHAP Plots

The SHAP plot provides insight into the contribution of each feature to the performance of a model. The plot is based on individual data points in contrary to the total gains feature importance typically used for model feature evaluation. The SHAP plot provides local interpretability by disaggregating by individual data points and shows the contributions of each feature across different observations. In addition, the plot provides intuition about whether a feature has a generally positive or negative correlation with predict values.

SHAP values originate from cooperative game theory. The methodology aims to allocate optimal credit to each feature (emphasis on "cooperative") and make explanations local (so each test case/row can be explained). Not only does each test case have its own SHAP values, but the values across test cases are additive allowing for both individual and group evaluation of the test dataset.

An example of a SHAP plot is shown in *Figure 8*. The SHAP Beeswarm plot uses the local and additive nature of the SHAP values to provide three dimensions of insight to model inputs:

- The plot y-axis is similar to other feature importance bar charts and ranks features from the most important to least important. The feature order is selected according to the mean absolute value of the SHAP values for each feature. This order emphasizes broad impact and can undervalue rare but high magnitude impacts.
- The x-axis shows each SHAP value with a dot for each data set row. The dots aggregate along each feature row to show density, indicating when many rows have similar SHAP values, providing insight to a features SHAP values distribution.
- Color is used to display the relative original value of a feature, with higher values in red and lower values in blue. The color dimension gives insight into whether high or low values are associated with higher probability outcomes, providing a useful check on whether the model algorithm is using feature values as expected.

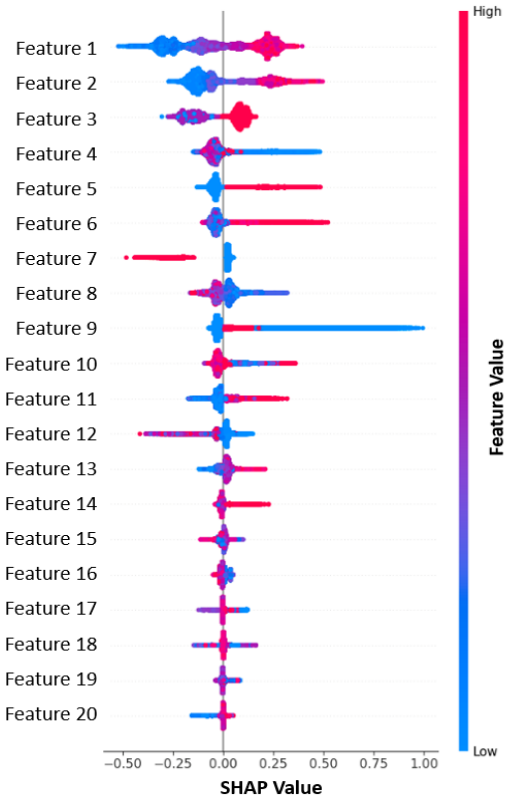


Figure 8 - Example SHAP Plot

4 Model Results Methodologies

The RaDA team probability, consequence, and risk models have been developed to support risk mitigation work prioritization and planning. Frequently, work planning teams need the RaDA model data results to be transformed to match with a particular mitigation program's planning requirements. The RaDA team has developed the following model result transform methodologies in support of mitigation program requirements:

- System Hardening Circuit Segments
- Model Results Aggregation
- Model Results Compositing

The following sections provide overviews of each of the three transform methodologies and their application to RaDA probability, consequence, and risk model results.

4.1 System Hardening Circuit Segments

Circuit Segments are an artificial risk mitigation work planning construct applied to the distribution grid.

A circuit on the distribution grid is the set of electrical grid assets downstream of a substation circuit breaker. However, an electrical circuit is often too large for planning and performing risk mitigation work. Therefore, the System Hardening/Undergrounding wildfire mitigation planning teams have chosen to organize their work by Circuit Segments.

4.1.1 Circuit Segment Definition

A Circuit Segment is the section, or segment, of a circuit and all its connected assets downstream of its closest recloser, or Dynamic Protective Device (DPD). Multiple reclosers on a circuit divide the circuit into various smaller segments such that a fault within any segment will only disrupt power to itself and any downstream segments. An example circuit broken into four Circuit Segments by three DPDs is shown in *Figure 9*.

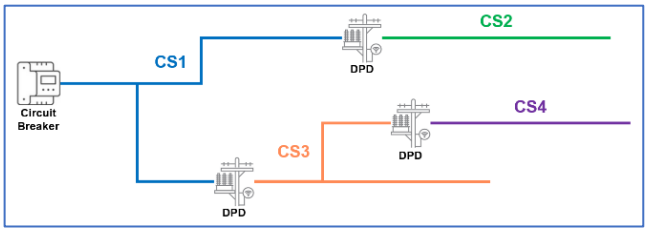


Figure 9 - Circuit Segmentation for Work Planning

There is one significant nuance when defining a work planning Circuit Segment. Some DPDs have switching capabilities that can alter the effective segment configuration during operation. For planning purposes, Circuit Segment configuration is set to match default, or as designed, switch positioning.

4.1.2 Circuit Segment Identification

Circuit Segments are an artificial work planning construct. Each Circuit Segment is identified through logical inspection of the Electrical Distribution GIS (EDGIS) datasets.

4.1.2.1 Circuit Segment Configuration Source Data

The work planning Circuit Segments are determined using grid asset data from three sources:

- Circuit Breaker EDGIS
- DPD EDGIS
- EDGIS Circuit Trace Table

The electrical grid is constantly changing due to maintenance, risk mitigation, and newly installed services. Therefore, it is necessary to use data that is sourced at a specific point in time to minimize configuration mismatches. Snapshot of all three datasets for defining the Circuit Segments are archived by RaDA on the first of each month along with other source datasets necessary for developing risk models. When RaDA begins development on a new set or risk models, all source datasets are synchronized to a common snapshot of data.

4.1.2.2 Protective Device List

As Circuit Segments are an artificial work planning construct, it is necessary to determine from available GIS datasets which electrical assets serve as segment defining protective devices. For System Hardening, this includes Circuit Breakers and DPDs that meet the following criteria:

- Circuit Breakers
  - Substation full circuit breakers
  - Default position configuration, if applicable
  - Parameter: subtypecd = “Source”
  - Parameter: enabled = “True”
- DPDs
  - Default position configuration
  - Parameter: subtypcd = “Recloser”
  - Parameter: status = “In Service”

For Circuit Breakers and DPDs that include configuration switching functionality, additional logic is applied to include only devices with default, as designed, switch settings.

4.1.2.3 Circuit Segment Protected Asset Identification

For every protective device that serves to identify a Circuit Segment, there is a set of electrical assets that the protective device safeguards. The EDGIS Circuit Trace Table is used to cross-reference each Circuit Segment with its protected assets using the global ID of its protective circuit breaker or DPD.

The Trace Table contains millions of relationships that define the distribution grid configuration. The relationships are inspected to determine the global ID of the closest upstream protective device, and hence the containing Circuit Segment, for each electrical asset on the grid.

Unfortunately, due to clerical errors or differences in update frequencies of the EDGIS tables, a very small percentage of assets cannot be mapped to a circuit breaker or DPD in the protective device list. These leftover assets are assigned to an “Unknown” Circuit Segment so that their risk can be accounted for during the modeling process and to facilitate investigation of GIS errors.

4.1.2.4 Circuit Segment Name Assignments

Circuit Segment names are created by combining the circuit name and the protective device operating number for a segment. *Figure 10* provides several examples of Circuit Segment naming for circuit "*El Dorado PH 2101*". The following table illustrates how the circuit name and device operating numbers from *Figure 10* are combined to form unique circuit segment names:

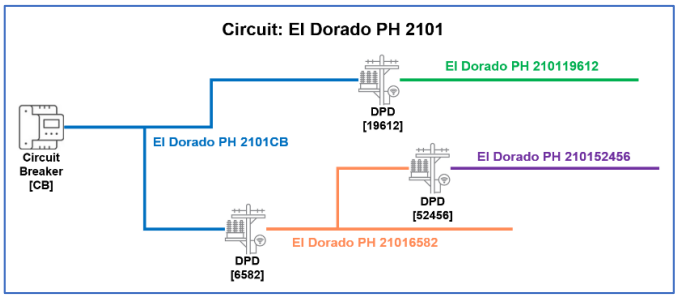


Figure 10 - Circuit Segment Naming

Circuit: El Dorado PH 2101		
Operating Number	**Device Type**	**Circuit Segment Name**
CB	Circuit Breaker	El Dorado PH 2101CB
19612	DPD	El Dorado PH 210119612
6582	DPD	El Dorado PH 21016582
52456	DPD	El Dorado PH 210152456

Table 2 - Example Circuit Segment Names

It is important to remember that Circuit Segment names reflect a fixed point in time. The grid is continuously evolving for reasons such as adding new services, inserting new protective devices for PSPS or EPSS, undergrounding portions of circuits, and replacing or removing circuit sections. Each time the grid configuration changes, one or more Circuit Segments may see a change in name, length, or protected assets. This is the primary reason why the RaDA risk modelling work is always anchored to a set of EDGIS datasets captured at a common date to ensure that mapping of risk results is consistent.

4.1.2.5 Circuit Segment Geometries

Multiple user requirements for the RaDA risk model results are satisfied through analysis of the Circuit Segment geometries. Circuit Segment shape geometries are determined via the cross-referenced protected primary and secondary conductor records from the EDGIS Circuit Trace Table. The geometry of each Circuit Segment protected conductor section is merged to create the total geometry.

The Circuit Segment geometries are required to satisfy two significant user requirements:

- Display risk model results on maps in Foundry as well as other systems such as ArcGIS.
- Determine Circuit Segment lengths in defined areas such as:
  - HFRA
  - HFTD
  - HFTD Tier 2
  - HFTD Tier 3
  - HH Zone 1
  - County
  - Region

Note that location of non-conductor assets, which have point locations rather than geometries, are not merged into the Circuit Segment shape geometry.

4.1.3 Circuit Segment Use for Risk Models

As required by the System Hardening and Undergrounding risk mitigation work planning teams, model results from the Distributions Event Probability Models, the Wildfire Consequence Model, and the Wildfire Distribution Risk Model are aggregated to Circuit Segments. Work planners consider the relative aggregated values for probability of ignition, wildfire consequence, and wildfire risk to prioritize the timing, type, and amount of risk mitigation work that will be performed on high-risk Circuit Segments, especially in high fire risk areas.

Aggregation and compositing of risk model results to Circuit Segments are described in Sections *4.2* and *4.3* of this document.

4.1.4 Circuit Segment Vintage Warning

The GIS datasets used to create a set of distribution Circuit Segments are constantly changing to reflect the current physical state of the grid. While it is possible to continuously update the Circuit Segments as the underlying GIS datasets are updated, this is not useful from a risk modeling perspective. Therefore, any risk model produced by the RaDA team will have a GIS vintage date associated with it. The GIS vintage date for a risk model is recorded as part of its provenance metadata. Users are advised to check and consider the Circuit Segment vintage date when trying to compare or merge risk model results with Circuit Segment based datasets produced outside of the RaDA team.

4.2 Model Results Aggregation

4.2.1 Introduction

RaDA produces both asset and spatial models. Asset models produce results that estimate event probabilities or risk for individual assets at point locations. Spatial, or grid pixel, models, product results that estimate event probabilities or risk within 100m by 100m square pixels that form a grid over the distribution and transmission service territories.

Many end users need to understand model results in a larger context than the direct model outputs. The most used context is Circuit Segment based values. Other contexts that have been requested include county and regional based values. Providing these values requires that the asset and spatial model results be aggregated to the desired context.

4.2.2 Circuit Segment Line Geometry Aggregation

A common user requirement is aggregating model results to a line geometry. While there are several permutations of line geometry possible for the electric grid, the only aggregation currently supported by the RaDA team is the System Hardening Circuit Segment. The aggregated model result for a Circuit Segment is the sum of two components, grid pixel model result values aggregation and asset model result values aggregation.

4.2.2.1 Grid Pixel Aggregation

Many of the RaDA risk models produce results for 100m by 100m grid pixels that overlay our service territory. Pixel model results are aggregated to line geometries like Circuit Segments by summing the model result value for each grid pixel that intersects spatially with the Circuit Segment geometry. *Figure 11* presents a single Circuit Segment that intersects with 14 grid pixels. The aggregated model result value for the Circuit Segment is the simple sum of all intersecting pixel values.

CS Aggregated Pixel Value = A5 + A6 + B1 + … + I7 + J8

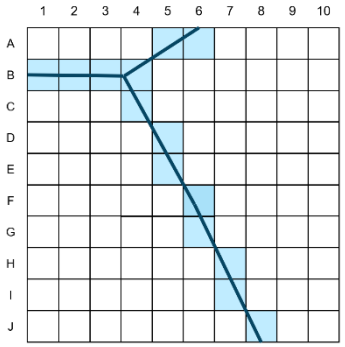


Figure 11 - Single Circuit Segment Pixel Aggregation

Aggregating model results is a bit more complicated when multiple Circuit Segments intersect with one or more shared pixels as shown in *Figure 12*. If the same model result value is summed to both Circuit Segments, then you end up with more summed total Circuit Segment result values then is modeled for the entire grid. In other words, the sum of all Circuit Segment results would be greater than the sum of all pixel results.

The model results aggregation is modified for shared pixels by dividing the model result for each shared pixel by the number of Circuit Segments that intersect it.

Blue CS Aggregated Pixel Value = A5 + … + F6/2 + … + J8

Orange CS Aggregated Pixel Value = G1 + … + F6/2 + … + E10

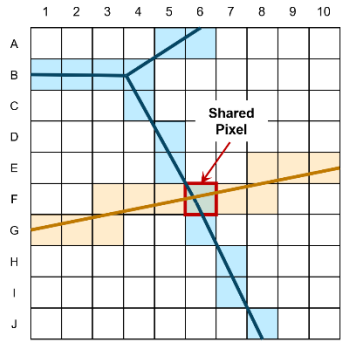


Figure 12 - Multi-Circuit Segment Pixel Aggregation

4.2.2.2 Asset Value Aggregation

Several event probability models produce by RaDA produce results by unique assets. Asset model results are aggregated to line geometries like Circuit Segments through parent-child relationships between assets kept in various system of record databases. Most assets relationships can be established using the EDGIS Circuit Trace Table. Unfortunately, support structure assets are not included in the Circuit Trace Table and their relationship to other assets must be inferred through multiple data sources.

4.2.2.2.1 EDGIS Circuit Trace Table Assets Assignment to Circuit Segments

The EDGIS Circuit Trace Table, which is used to identify and name Circuit Segments, also serves to relationally identify most electrical assets that are associated with a Circuit Segment. This includes:

- Capacitor Banks
- Dynamic Protection Devices (DPDs)
- Fuses
- Switches
- Transformers
- Voltage Regulators

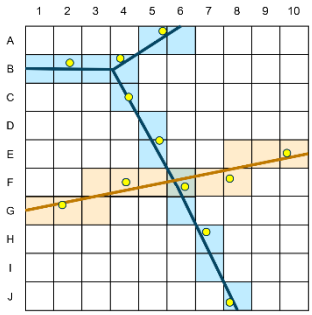


Figure 13 - Circuit Segment Assigned Assets

Unfortunately, Support Structures, which are not energized assets, are not included in the trace table.

Figure 13 presents two Circuit Segments showing both their assigned pixels and assets.

4.2.2.2.2 Support Structure Assignment to Circuit Segments

Support Structures, or poles, require specialized logic to determine their owning Circuit Segment(s). As noted in the prior section, Support Structures are not recorded in the EDGIS Circuit Trace Table as they are not energized assets. Currently, there is no comprehensive single data source that definitively relates Support Structures with Circuit Segments.

Support Structures to Circuit Segment(s) relationships are established through a cascaded search of two datasets in the following order of preference:

1. RaDA's Manual Assignment Dataset
2. Asset Knowledge Management (AKM) Pole to Conductor Dataset

4.2.2.2.2.1 RaDA Manual Assignments

There is a known issue with the AKM Pole to Conductor dataset for assets near electrical stitch points and circuit breakers where there are sometimes too many conductors, and by association circuit segments, assigned to a single support structure. For cases where there are four or more circuit segments linked to a support structure, the RaDA team manually use the EDGIS Web Viewer to review conductor connections and create a custom support structure to circuit segment lookup dataset.

Figure 14 provides an example of the potential need for a manual assignment. The magenta dots represent support structures where there is the potential for as many as four Circuit Segment that could be assigned to each of the poles. The RaDA Manual Assignment Dataset would be used to determine the Circuit Segment and Support Structure relationships.

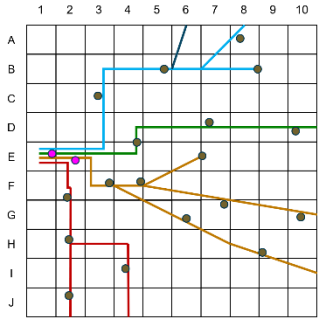


Figure 14 - Circuit Segment Support Structure Assignments

4.2.2.2.2.2 Asset Knowledge Management (AKM) Pole to Conductor Dataset

The AKM team maintains a dataset that is the most reliable source for understanding relationships link between distribution support structures and conductors. The AKM team actively works to maintain and enhance the dataset. The AKM dataset is used for establishing nearly all of the conductor to support structure relationships with the few exceptions originating from the RaDA Manual Assignments dataset described in the prior section. The AKM dataset is snapshotted monthly to support synchronization of model data for development.

4.2.2.2.3 Asset Model Result Aggregation to Support Structures

The following assets have one-to-one relationships with Circuit Segments:

- Capacitor Banks
- Dynamic Protection Devices (DPDs)
- Fuses
- Switches
- Transformers
- Voltage Regulators

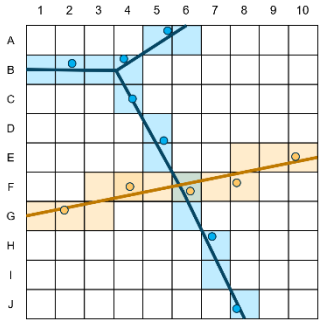


Figure 15 - Direct Asset Risk Aggregation to Circuit Segment

The risk results for these assets list above can be directly attributed to a Circuit Segment. *Figure 15* shows two circuit segments and their directly associated assets for aggregation.

4.2.2.2.4 Support Structure Result Aggregation to Circuit Segments

Support Structure and Primary Conductor risk results are attributed to specific poles. Many poles are associated with multiple Circuit Segment. Pole-based risk results are therefore apportioned equally to associated Circuit Segment depending on the number of connected Circuit Segments. *Figure 16* presents three Circuit Segments with a few shared poles. Their risk results would be assigned and summed as follows:

- Blue CS = 1/3 Red + 1/2 Magenta + 3 Blue
- Green CS = 1/3 Red + 1/2 Magenta + 2 Green
- Brown CS = 1/3 Red + 3 Brown

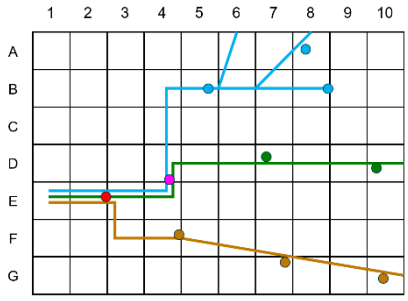


Figure 16 - Pole-based Asset Risk Aggregation to Circuit Segment

4.3 Model Results Compositing

The ultimate purpose for the RaDA risk models is to inform the prioritization of risk mitigation programs. The event probability model risk results can be flexibly composited to provide probability values, risk values, and priority rankings for specific mitigation programs. Using composited results, programs can prioritize mitigation of the highest total risks while using the contributing event probability models to understand the best mediation approach to handle the specific components of risk.

Risk can be composited for any combination of event probability models. Mitigation planners and Subject Matter Experts can focus on the drivers of risk for which they are responsible with confidence that their composited view is relevant to their work planning needs.

4.3.1 Compositing Methodology

An event probability model produces, by asset or pixel, a probability of ignition. Combining a probability of ignition with its consequence produces the wildfire risk. Probability of ignition and risk results can be composited to create total probability of ignition and total risk values. Compositing methodology has evolved as the distribution event probability models have matured and improved.

In producing the WDRM v3, all event probability model results were composited on a pixel basis and equipment asset results were spatially assigned to circuit segments. Unfortunately, a significant number of pixels contain multiple circuit segments. As risk results were attributed to a pixel, v3 compositing lacked a methodology for attributing asset risk at a pixel level proportionally to a specific circuit segment. Therefore, pixel risk would be divided equally between all circuit segments that crossed through a pixel.

For WDRM v4, most of the equipment asset models produce results on an individual asset basis and each asset's relationship with a containing circuit segment is traced through various GIS and SAP data sets. Therefore, equipment asset risk can be attributed directly to a circuit segment, eliminating the shared risk approach necessary for pixel-based results using for v3.

The compositing methodology used by the RaDA team in support of the WDRM is currently a three-step process:

1. Composite pixel model results
2. Composite equipment asset model results
3. Aggregation of pixel and asset composite values

4.3.1.1 Compositing Pixel Model Results

Models that produce pixel results are typically spatially oriented in the context of the risk than threatens the electrical grid network. *Figure 17* depicts a single pixel with multiple potential spatial threats. Individual event probability models for vegetation, animals, and third-party events have produced high, medium, and low risk results, respectively for this particular pixel. Mitigation programs are typically interested in comparing the total risk for the circuit segment that passes through this pixel relative to other circuit segments where work might be performed.

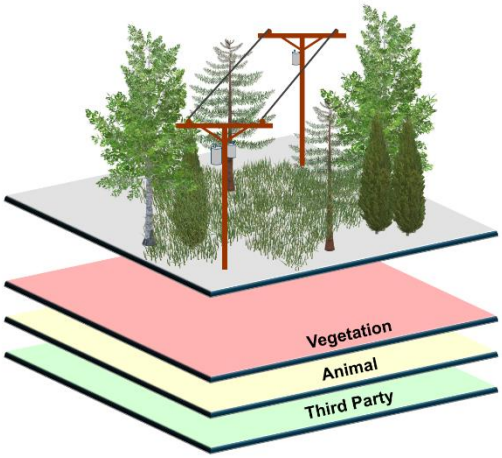


Figure 17 - Pixel Model Layers

Pixel model results are very straightforward to composite, this risk values from each of the contributing pixel models are simply summed to determine the composite risk for a pixel:

$$Composite\ Risk_{pixel} = \sum_{1}^{n} Pixel\ Model\ Risk$$

Figure 18 presents the composited risk value for the example pixel. For this example, a high vegetation risk result and a significant animal risk combine to produce a relatively high overall pixel model risk result for any circuit segment that passes through the pixel.

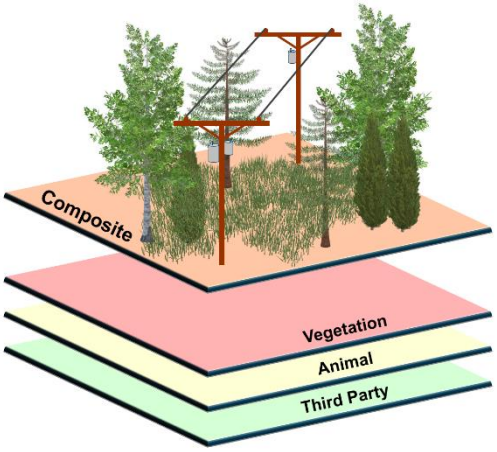


Figure 18 - Composited Pixel Result

4.3.1.2 Compositing Equipment Asset Model Results

Equipment asset models produce risk results that are specific to individual assets. *Figure 19* depicts a very simple example of a circuit segment. Even simplified, there are multiple modeled assets represented, including:

- Two support structures
- Two primary conductor spans
- Three attached transformers

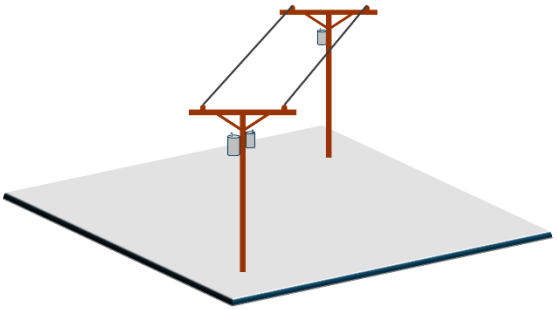


Figure 19 - Simplified Equipment Asset Example

Risk results are generated by the appropriate equipment asset model for each piece of equipment. *Figure 20* displays visually the risk results for each of the individual assets that make up the simple circuit segment. Note that the two support structures, the two conductor spans, and three transformers each have different levels of risk assigned to them.

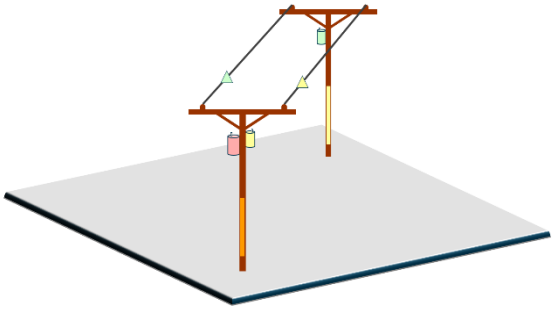


Figure 20 - Individual Equipment Asset Risk Results

The overwhelming majority of equipment assets are pole based. Therefore, equipment assets are composited to the support structure that holds the asset. Conductor spans are a special case in that they are supported by two poles, and hence, their risk must be distributed equally to their support structures.

Figure 21 depicts the compositing of equipment asset risk to the containing support structures. The composite risk indicator at the base of each support structure combines the risk for the pole, the equipment attached to the pole, and half of the conductor risk. Note that any pole with a significant number of attached equipment assets is likely to have a relatively high composite risk simply due to the number of assets.

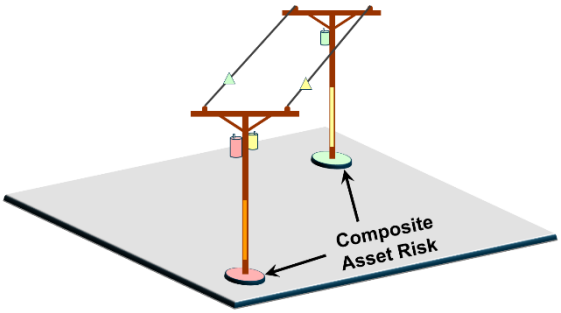


Figure 21 - Composited Asset Risk Example

4.3.1.3 Aggregation of Pixel and Asset Composite Results

Composite pixel and equipment asset results are typically aggregated to the context of circuit segment risk values for mitigation work planning.

Figure 22 depicts a single circuit segment that spans multiple grid pixel areas and has several equipment assets. The aggregated risk value for this segment is the combined sum of three composite pixel risk values and four composite asset risk values.

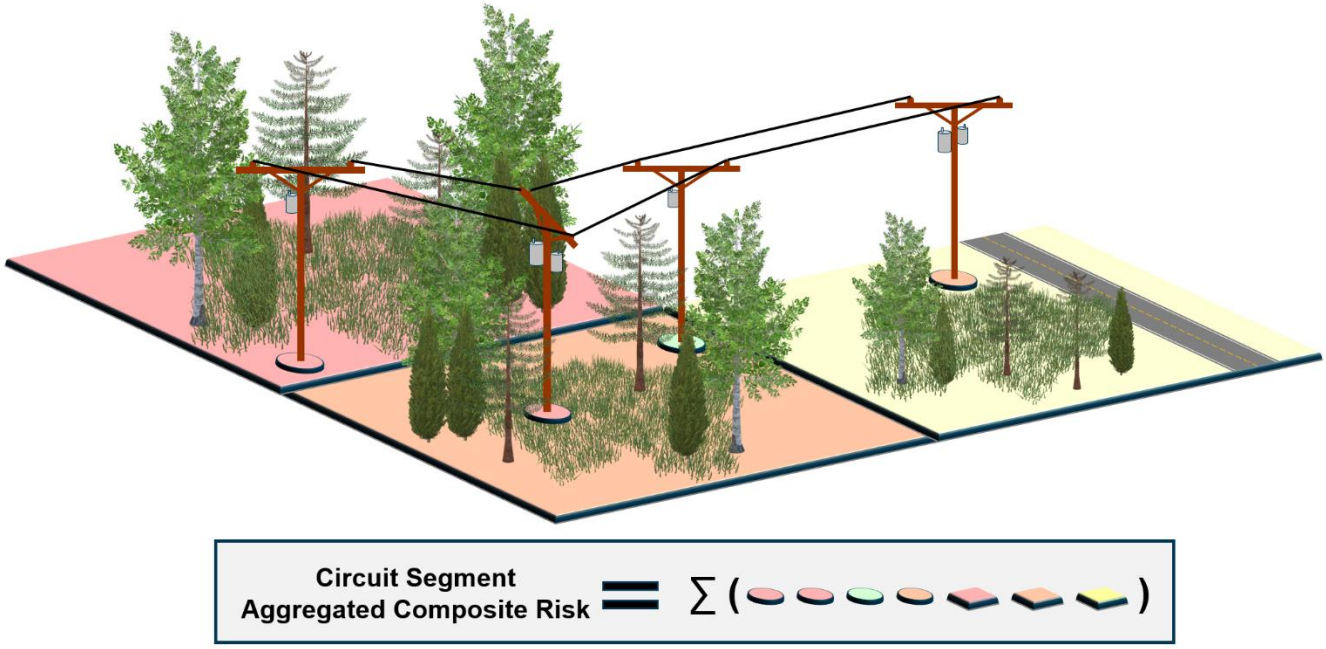


Figure 22 - Single Circuit Segment Aggregated Composite Example

The electrical grid network, however, is more complicated than the example present above. Sometimes, a support structure supports conductors for more than one circuit segment. Another common configuration issue is when multiple circuit segments pass through the same grid pixel. In these cases, some the aggregation must distribute the shared risk. *Figure 23* presents a configuration where two of the grid pixels are spanned by two distinct circuit segments. In this case, while asset risk can be directly attributed to its containing circuit segment, the grid pixel risk must be equally shared by the two segments.

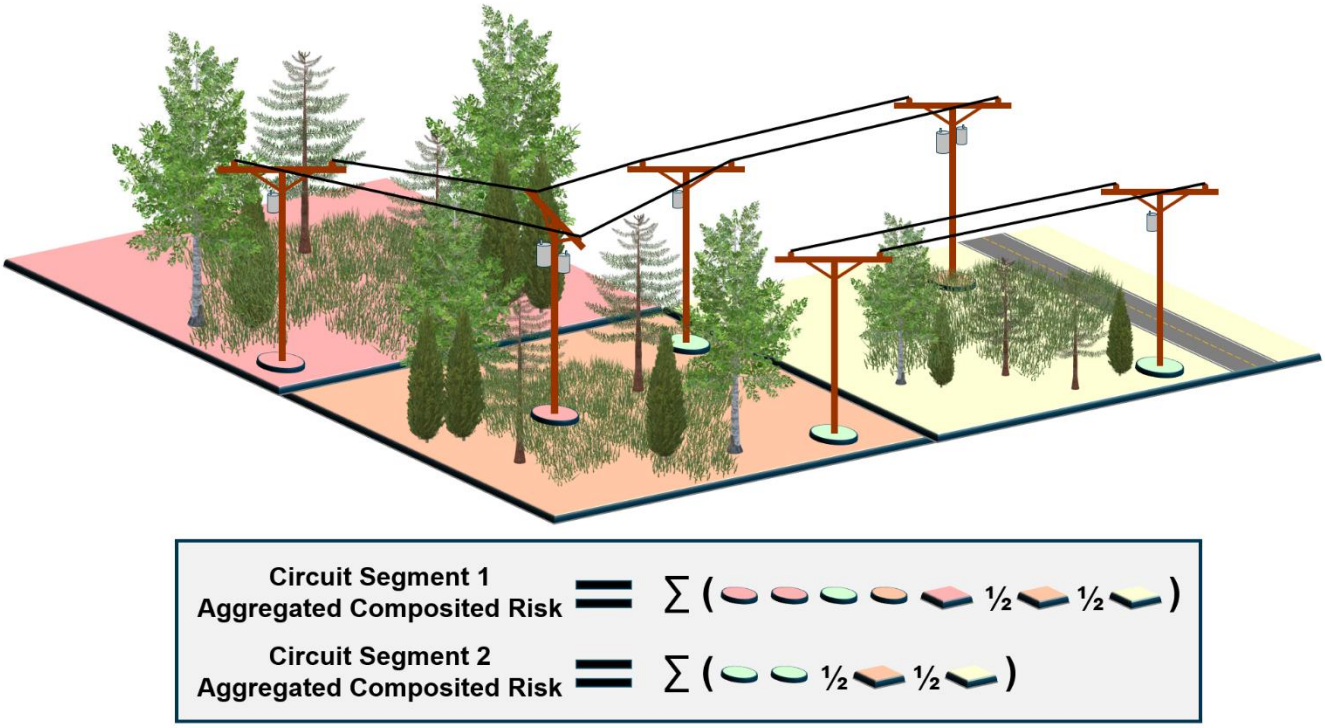


Figure 23 - Multiple Circuit Segment Aggregated Composite Example

4.3.1.4 WDRM v3 and v4 Circuit Segment Composite Aggregation Comparison

The aggregation of composited risk is a major difference between WDRM v3 and v4, and the updated aggregation results in more accurate relative circuit segment risk scores for v4. The single pixel circuit segment configuration provided in *Figure 24* will be used to illustrate the difference between v3 and v4 circuit segment risk values. Note that a set of example risk values have been associated with the icon colors in the figure.



Figure 24 - v3/v4 Circuit Segment Risks Example

For v3, all event probability model risk results were recorded as pixel values. For the sake of brevity, the asset composite results presented in *Figure 24* will be assumed to be pixel level results. For v3, a composited pixel risk value was calculated and distributed equally to the two circuit segments that cross the pixel as shown in *Figure 25*. In the v3 example, each circuit segment was assigned a risk value of 4.5 and the two circuits would have been considered to be of equal priority for mitigation work.

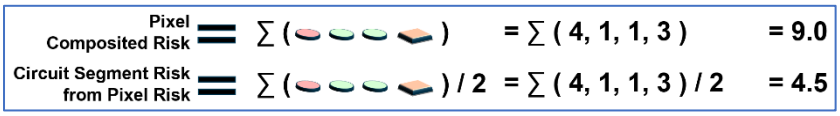


Figure 25 - WDRM v3 Circuit Segment Pixel Risk Assignment

In contrast, for v4 the equipment asset risks are directly assigned to their containing circuit segments and only pixel model risk is shared equally between the two circuit segments. *Figure 26* illustrates that the direct assignment of asset risk results in different circuit segment risk values, and hence, very different priorities for receiving potential mitigation work. This result makes sense, as one segment has an asset with considerably greater wildfire risk than the other.

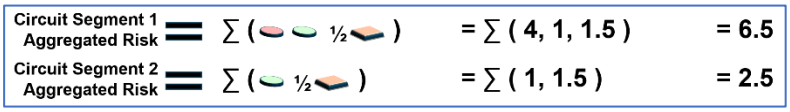


Figure 26 - WDRM v4 Circuit Segment Asset & Pixel Risk Assignment

4.3.2 Mitigation Work Composites

The number of event probability event models has grown with each new version of the WDRM to provide better causal modeling and interpretation of wildfire risk. An All model risk composite, depicted in *Figure 27*, is built for each WDRM version that combines the entire suite all equipment asset and pixel model event probability risk results into a total composite risk result for each circuit segment.

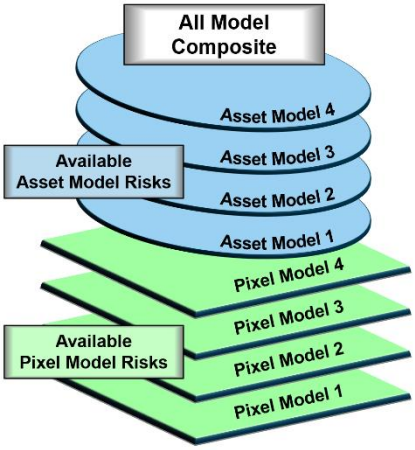


Figure 27 - All Model Composite

The All composite, however, is usually of interest only to the RaDA team for model calibration and quality control. Most mitigation program work planners are interested in only a partial set of event probability model risk results that quantify only the risks that can be addressed by a specific program.

Custom composites are configured so that the total risk for only the applicable event probability models gets considered as part of the work planning and prioritization process. *Figure 28* illustrates how model selection can be used to configure a composite of selected event probability models for a specific work plan. In the example, only a sub-set of the available equipment asset and pixel model risk results are relevant to the mitigation work program.

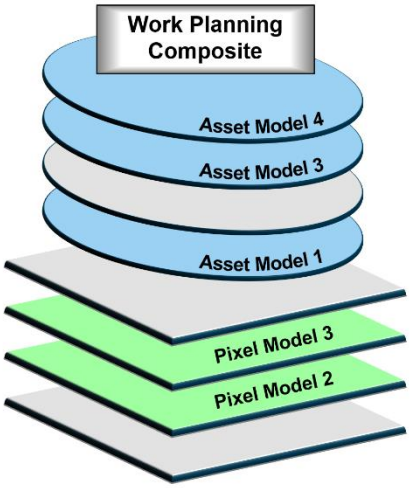


Figure 28 - Mitigation Work Planning Composite

4.3.3 Ignition-Weighted Consequence

The compositing of asset and pixel model results for WDRM v4 revealed that the relationship between aggregated wildfire risk, consequence, and probability of ignition is not straightforward. Simply multiplying an aggregated probability of ignition with an aggregated consequence value will not produce a correct aggregated risk value. To address this issue, it is necessary to back-calculate an aggregated consequence value from aggregations of probability of ignition and wildfire risk. The back-calculated consequence is called the Ignition-Weighted Consequence.

The example circuit segments shown in *Figure 29* will be used to explain how an Ignition-Weighted Consequence value is calculated and why it is necessary for aggregated composites. Note that the only difference in the two circuit segments is the pixel location of the center support structure and its associated assets.

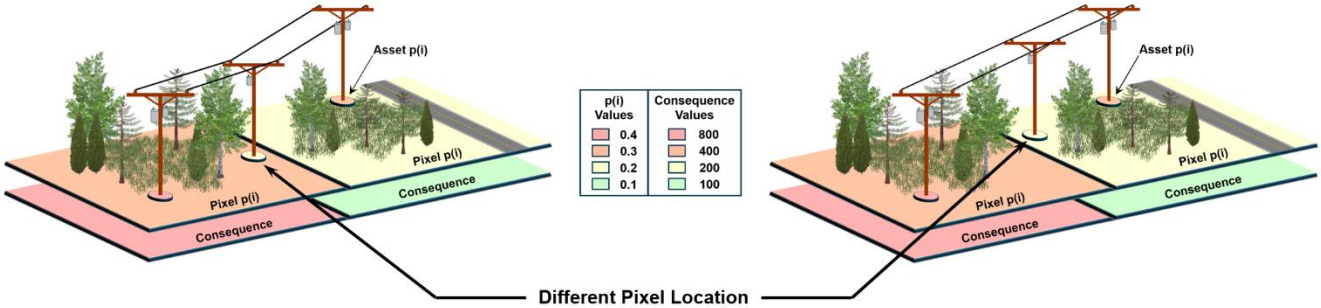


Figure 29 - Ignition-Weighted Consequence Explanation Circuit Segments

The box in the center of the example diagram provides color-coded numeric values for p(i) and wildfire consequence to be used for determining circuit segment risk and ignition-weighted consequence values.

A key understanding for the example is that both circuit segments have identical aggregated p(i) values and the same average consequence value, as shown by the calculations in *Figure 30*. Wildfire risk is defined as a p(i) value multiplied by a consequence value. However, an aggregated composite circuit segment risk value cannot be directly determined by multiplying the aggregated p(i) and the average circuit segment wildfire consequence. Aggregated composite risk must consider the location of the modeled assets to produce the correct aggregated risk value.

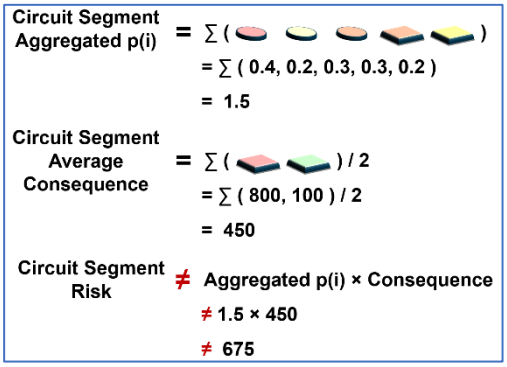


Figure 30 - Incorrect Aggregated Composite Risk Example

Consider the sample circuit segment where the center support structure is located in the left-hand grid pixel (*Figure 31*). For this case the aggregated composite risk would be calculated as shown in *Figure 32*.

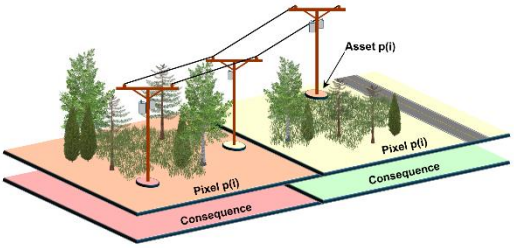


Figure 31- Example Circuit Segment Configuration 1

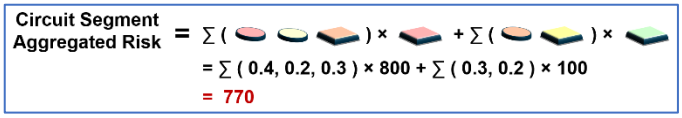


Figure 32- Configuration 1 Aggregated Risk Value

Contrast the results for Configuration 1 with Configuration 2, where the center support structure is located in the right-hand grid pixel (*Figure 33*). The right-hand grid pixel has a much lower consequence value and, as a result, the aggregated composite risk value for the circuit segment will be much lower, as demonstrated in *Figure 34*.

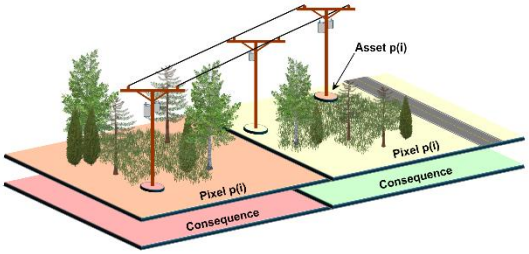


Figure 33 - Example Circuit Segment Configuration 2

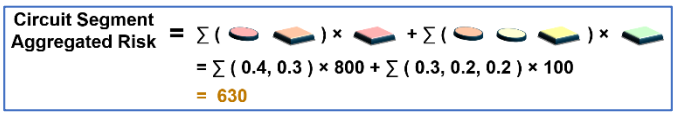


Figure 34 - Configuration 2 Aggregated Risk Value

Note that neither of the aggregated composite risk values determined for the example circuit segment configurations match the risk value calculated from the summed p(i) and average consequence values presented in *Figure 30*.

Since the circuit segment asset configuration against the network grid pixel locations can strongly influence its aggregated composite risk value, then its relative consequence value must also consider the asset locations. This is achieved by dividing the aggregated composite risk value by its summed probability of ignition to yield an ignition-weighted consequence value.

Figure 35 provides the ignition-weighted consequence values for the two example circuit segment configurations. Note that neither of the ignition-weighted consequence values match the average pixel consequence value presented in *Figure 30*.

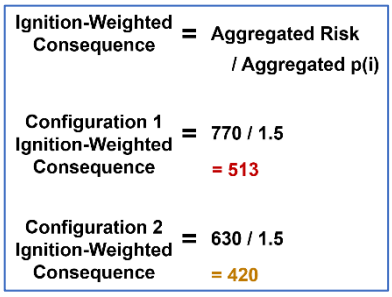


Figure 35 - Configuration 1 and 2 Ignition-Weighted Consequence

5 Future Plans

New algorithms and methodologies are developed as needed for new model development and to fulfill new user requirements. In response to user requests, potential new developments include:

- Isolation Zone aggregation and compositing of event probabilities and risk.
- Support Structure aggregation and compositing of event probabilities and risk.
- Regional aggregation of event probabilities and risk.
- Multi-risk optimization for wildfire, PSPS, reliability, and public safety risks.

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP024

WBCA TOY PROBLEM

Workpaper 024
Pacific Gas and Electric Company
Electrical Undergrounding Program
WBCA Toy Problem

WBCA Toy Problem Results

Description *: This workpaper illustrates how the Wildfire Benefit-Cost Analysis (WBCA) tool responds when individual inputs are adjusted, using a simplified "toy problem" to make the tool's mechanics transparent to the reader.*

The "Original" table reflects the baseline output of the WBCA tool, showing the Benefit-Cost Ratio (BCR) calculated from PG&E's standard set of quantified benefits (PSPS, EPSS, wildfire, regular reliability, and public safety risks) and costs (capital and net lifetime O&M). Each subsequent alternative applies a single, isolated change to one input, so the reader can observe, in isolation, how each input influences the resulting BCR. Cells highlighted in blue with a dotted border indicate values that differ from those shown in the Original table.

Together, these side-by-side alternatives demonstrate the directional sensitivity of the BCR to changes in individual benefit and cost components, providing an intuitive walkthrough of the tool's behavior.

	Original	UG Primary
Numerator	PSPS Benefits	$1.50
	EPSS Risk Benefits	$2.75
	WF Risk Benefits	$9.40
	Regular Reliability Benefits	$2.61
	Public Safety Benefits	$0.02
Denom	Capital Cost	$11.45
	Net Lifetime O&M Costs	-$9.61
	Baseline O&M Costs	$11.06
	Mitigation Lifetime O&M Costs	$1.44
	BCR	8.86

	+PSPS	UG Primary
	Addition of:	$5.00
Numerator	PSPS Benefits	$6.50
	EPSS Risk Benefits	$2.75
	WF Risk Benefits	$9.40
	Regular Reliability Benefits	$2.61
	Public Safety Benefits	$0.02
Denom	Capital Cost	$11.45
	Net Lifetime O&M Costs	-$9.61
	Baseline O&M Costs	$11.06
	Mitigation Lifetime O&M Costs	$1.44
	BCR	11.58

	+EPSS	UG Primary
	Addition of:	$3.50
Numerator	PSPS Benefits	$1.50
	EPSS Risk Benefits	$6.25
	WF Risk Benefits	$9.40
	Regular Reliability Benefits	$2.61
	Public Safety Benefits	$0.02
Denom	Capital Cost	$11.45
	Net Lifetime O&M Costs	-$9.61
	Baseline O&M Costs	$11.06
	Mitigation Lifetime O&M Costs	$1.44
	BCR	10.77

	+WF Risk	UG Primary
	Addition of:	$10.00
Numerator	PSPS Benefits	$1.50
	EPSS Risk Benefits	$2.75
	WF Risk Benefits	$19.40
	Regular Reliability Benefits	$2.61
	Public Safety Benefits	$0.02
Denom	Capital Cost	$11.45
	Net Lifetime O&M Costs	-$9.61
	Baseline O&M Costs	$11.06
	Mitigation Lifetime O&M Costs	$1.44
	BCR	14.30

	+Regular Reliability	UG Primary
	Addition of:	$1.00
Numerator	PSPS Benefits	$1.50
	EPSS Risk Benefits	$2.75
	WF Risk Benefits	$9.40
	Regular Reliability Benefits	$3.61
	Public Safety Benefits	$0.02
Denom	Capital Cost	$11.45
	Net Lifetime O&M Costs	-$9.61
	Baseline O&M Costs	$11.06
	Mitigation Lifetime O&M Costs	$1.44
	BCR	9.41

	+PCEEE	UG Primary
	Addition of:	$2.00
Numerator	PSPS Benefits	$1.50
	EPSS Risk Benefits	$2.75
	WF Risk Benefits	$9.40
	Regular Reliability Benefits	$2.61
	Public Safety Benefits	$2.02
Denom	Capital Cost	$11.45
	Net Lifetime O&M Costs	-$9.61
	Baseline O&M Costs	$11.06
	Mitigation Lifetime O&M Costs	$1.44
	BCR	9.95

	+Capital Cost	UG Primary
	Addition of:	$2.00
Numerator	PSPS Benefits	$1.50
	EPSS Risk Benefits	$2.75
	WF Risk Benefits	$9.40
	Regular Reliability Benefits	$2.61
	Public Safety Benefits	$0.02
Denom	Capital Cost	$13.45
	Net Lifetime O&M Costs	-$9.61
	Baseline O&M Costs	$11.06
	Mitigation Lifetime O&M Costs	$1.44
	BCR	4.24

	+O&M Costs	UG Primary
	Addition of:	$3.00
Numerator	PSPS Benefits	$1.50
	EPSS Risk Benefits	$2.75
	WF Risk Benefits	$9.40
	Regular Reliability Benefits	$2.61
	Public Safety Benefits	$0.02
Denom	Capital Cost	$11.45
	Net Lifetime O&M Costs	-$6.61
	Baseline O&M Costs	$11.06
	Mitigation Lifetime O&M Costs	$4.44
	BCR	3.37

Key:
Value deviates from Original table

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP025

WILDFIRE CONSEQUENCE MODEL VERSION 4

(WFC V4) DOCUMENTATION

Wildfire Consequence Model Version 4 (WFC v4) Documentation



Prepared By: PG&E Risk and Data Analytics Team

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Rev	Date	Comment
0	05/28/2024	Initial Release
1	03/12/2025	Added new cover page
2	07/02/2026	Expanded model descriptions in response to user feedback

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Executive Summary

The Wildfire Consequence (WFC) Model is used by PG&E to estimate the expected outcome of a wildfire initiated by an ignition from an electrical grid asset. The model is based on records of historic wildfires and their outcomes (acres burned, structures lost, and fatalities), which are transformed into comparable units through a Multi-Attribute function (MAVf). The model calculates expected MAV at PG&E grid locations based on the MAV associated with historic wildfires under similar conditions. Consequence values are generally higher at locations that are typically dry, windy, in rough terrain, and have an abundance of burnable fuel.

The WFC supports the Wildfire Distribution Risk Model (WDRM) and the Wildfire Transmission Risk Model (WTRM) missions to quantify and categorize wildfire risk from overhead distribution and transmission network assets. The relative wildfire risk results produced by the WDRM and WTRM inform the PG&E Wildfire Mitigation Plan (WMP) as well as specific mitigation program work plans to help realize the company stand, *"Catastrophic Wildfires Shall Stop."* This document describes the development of the Wildfire Consequence Model version 4 (WFC v4) by the Risk and Data Analytics (RaDA) team and highlights improvements implemented over its predecessor, WFC v3.4.

WFC v4 Improvements

WFC v4 delivered significant improvements to the modeling of wildfire outcomes:

- Improved historical fire data set quality
  - Incorporated additional historical fire data to train the model, which also increased sample size, included smaller fires, and improved estimates through merging multiple source data sets
  - Expanded number of years of fire records
  - Curated fire ignition locations
- Expanded Technosylva fire simulation time from 8 to 24 hours to improve predictive performance for large fires
- Introduced Dry Wind Conditions (DWC) status to help differentiate the highest threat days
- Developed consequence adjustment models for:
  - Public Egress impact
  - Wildfire Suppression impact

WFC v4 Wildfire Consequence Insights

WFC v4 benefited from several improvements. As a result, WFC v4 produces consequence values with improved performance against historical wildfires in PG&E's service territory. WFC v4 also shows less variation in relative consequence values across the system than WFC v3.4. The most critical insight is that WFC v4 has shifted the WDRM v4 System Hardening Composite Risk Buydown Curve, requiring considerably more primary overhead conductor miles to account for 80% of the High Fire Threat District (HFTD) wildfire risk, increasing from 10,000 miles for WDRM v3 to 14,600 miles for WDRM v4.

While there are many contributing factors for the flattened risk buydown curve, a principal cause is WFC v4 outcome changes driven by improved historical fire datasets, introduction of public egress as well as fire suppression impacts derived from Technosylva's Terrain Difficulty Index (TDI), implementation of a revised consequence MAVf, and to a minor extent, 24-hour fire simulations. While new WFC v4 features have improved performance over v3.4, it has also redistributed consequence, and therefore risk, across PG&E's service territory; resulting in a much flatter risk buydown curve.

1 Introduction

The intent of this document is to present the development, performance, and use of the Wildfire Consequence (WFC) model that supports the wildfire risk predictions provided by WDRM v4 and WTRM v2. Source data, modeling approach, and resulting probability predictions are described in detail.

This document describes WFC version 4 (v4) development by the Risk and Data Analytics (RaDA) team and highlights improvements implemented over its predecessor, WFC v3.4. The document seeks to provide the lay reader with a broad understanding of the WFC model. It is not intended to provide comprehensive working-level mathematical or scientific descriptions of all methods used to produce consequence results.

1.1 Wildfire Consequence Model Overview

The WFC v4 estimates the probable outcome of a wildfire initiated by an ignition from an electrical grid asset. The model determines outcomes for number of acres burned, structures destroyed, and fatalities at the location of every grid asset based on weather, vegetation fuels, and terrain conditions. The predicted outcomes are transformed through a Multi-Attribute Value function (MAVf) to calculate a consequence value. Consequence values are generally higher at locations that are typically dry, windy, in rough terrain, and have an abundance of burnable fuel.

An asset location consequence value combined with a probability of an ignition occurring at an asset location produces an estimate of wildfire risk for the asset. Collections of asset risk values provide the wildfire risk mitigation teams with the crucial data needed to prioritize mitigation work plans.

1.2 WFC Role in Distribution and Transmission Wildfire Risk Models

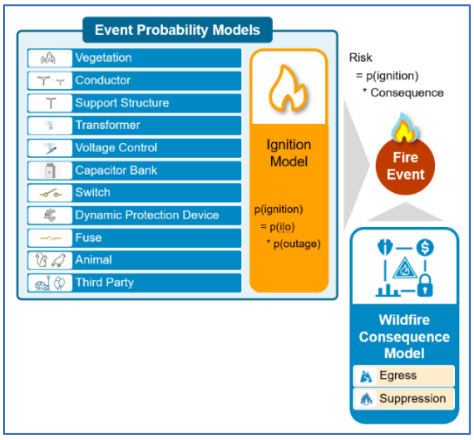


Figure 1 - WDRM Risk Prediction Overview

The Wildfire Distribution Risk Model (WDRM, *Figure 1*) and Wildfire Transmission Risk Model (WTRM, *Figure 2*) are the primary risk models that PG&E uses to provide insights for prioritizing mitigation work to reduce wildfires initiated by the electric grid.

WDRM and WTRM results, along with mitigation program planning tools, are used to develop work plans that systematically reduce wildfire risk, while considering constraints such as budget allocation, human and equipment resource capacity, and regulatory commitments.

The WDRM and WTRM quantify the risk related to PG&E's overhead distribution and transmission equipment assets, which consist of overhead transformers, poles, towers and other support structure parts, lines (conductors), and line-related equipment such as interrupters, switches and fuses. The WDRM and WTRM provide predictions of wildfire risk that occurs during a wildfire season of June 1st through November 30th.

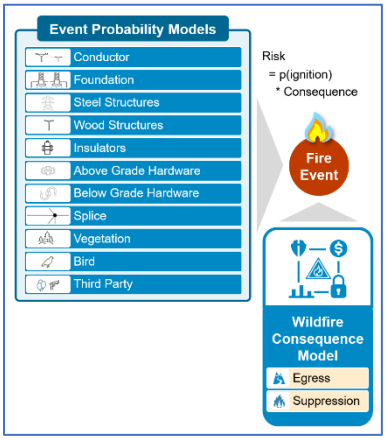


Figure 2 - WTRM Risk Prediction Overview

Wildfire risk is predicted by multiplying two component values. The first component, known as the Likelihood of a Risk Event (LoRE), is the probability of ignition occurring for an asset. The Distribution and Transmission Event Probability Models provide the LoRE values and are described in a separate document. The second component, known as the Consequence of a Risk Event (CoRE), is the predicted outcome of an ignition event at the location of an equipment asset as estimated by the WFC Model described in this document.

1.3 Document Suite

This document is part of the documentation suite for the Wildfire Distribution Risk Model (WDRM) v4:

- WDRM v4 Documentation
- Wildfire Fire Consequence Model v4 Documentation (this document)
- Distribution Network Event Probability Models v4 Documentation
- RaDA Algorithms and Methodologies

2 WFC v4 Highlights and Evolution

The WFC is continuously improved and expanded to incorporate refreshed and new data sources and adopt advancements in wildfire simulation. These improvement efforts are reflected in the evolution of the WFC version releases. Each new version has advanced the science of wildfire consequence modeling in support of PG&E's stand that "*Catastrophic Wildfires Shall Stop*."

2.1 WFC v4 Highlights

WFC v4 features several significant improvements to the modeling of wildfire outcomes:

- Improved historical fire data set quality
  - Incorporated additional historical fire data to train the model; which also increased sample size, included smaller fires, and improved estimates through merging multiple source data sets
  - Expanded number of years of fire records
  - Curated fire ignition locations
- Expanded Technosylva fire simulation time from 8 to 24 hours to improve predictive performance of large fires
- Introduced Dry Wind Conditions (DWC) status to help differentiate the highest threat days
- Developed consequence adjustment models for:
  - Public Egress impact
  - Wildfire Suppression impact

2.2 WFC Version Evolution

Assessment of the potential consequence of a wildfire is a rapidly evolving area of practice where improvements are achieved through the adoption of new data and methods. As a result, the WFC model has evolved and improved over time.

Figure 3 provides an overview of Wildfire Consequence Model evolution. As the understanding of ignition consequences has improved, the formulation of model features developed to produce a consequence value has progressed.

Wildfire Consequence Model Evolution

Feature	v1 (2019)	v2 (2021)	v3.4 (2022)	v4 (2023)
Service Scope	HFTD Tier 2/3	HFTD Tier 2/3	Service Territory	Service Territory
GIS Vintage	July 2016	April 2019	January 2022	January 2023
Fuels	2012 LANDFIRE	2020 Fuels Snapshot	2030 Forecast Growth	2030 Forecast Growth
Fire Simulation	6 hours	8 hours	8 hours	24 hours
Historical Fire Locations	No	No	Nearest Asset	At Ignition Location
Model Formulation				
REAX, Vol. & Struct.	✓	x	x	x
Fire Burn Index (FBI)	x	✓	x	x
Acres Burned	x	✓	x	x
Fire Potential Index (FPI)	x	x	✓	✓
Flame Length	x	x	✓	✓
Rate of Spread	x	x	✓	✓
Dry Wind Conditions	x	x	x	✓
Egress Impact	x	x	x	✓
Suppression Impact	x	x	x	✓

Figure 3 - Wildfire Consequence Model Evolution

2.3 Legacy WFC Models

The legacy WFC v2 and v3.4 release data are archived and are available for comparison and audit purposes.

2.3.1 WFC v2

WFC v2, developed for WDRM v2, used the results of 8-hr fire simulations provided by Technosylva, Inc. directly for determining consequence values. The simulations modeled the consequence of a fire that was initiated on the worst weather day for a location and accounted for the impacts of by fuel availability and terrain. Simulation outcomes for acres burned, buildings destroyed, and population impact were direct inputs to the MAVf calculation that determined consequence values.

2.3.2 WFC v3 and v3.4

WFC v3 and v3.4, developed for WDRM v3, responded to user feedback to deliver three significant improvements.

- High Fire Threat Area (HFRA)/non-HFRA partitioning.
- Historical fire calibration.
- Predicted Destructive conditions.

HFRA/non-HFRA partitioning was added to support the expansion of WDRM v2, which modeled only assets in HFTD, to WDRM v3, which modeled all service territory assets. The partitioning helped the consequence model differentiate the expected impacts of ignitions that occurred outside of the HFRA.

Historical fire calibration was introduced to adjust the 8-hr fire simulations for final fire outcomes. Large fires last much longer than the 8-hr simulation time and therefore burn more acreage, destroy more buildings, and have a larger public impact than the simulation predicts. The calibration improved consequence accuracy and scale of damage while retaining the spatial and temporal coverage of simulations, enabling the prediction of expected fire damages.

Predicted Destructive conditions were added to aid in the explicit identification of catastrophic or destructive wildfire conditions. This feature was aimed at identifying, with a high degree of recall, the conditions which result in catastrophic or destructive wildfires. The Predicted Destructive conditions status was determined from a combination of PG&E Meteorology's Fire Potential Index and Technosylva's fire simulation data.

2.4 WFC v4 Model Architecture

The WFC v4 architecture was substantially modified from WFC v3.4 to accommodate WMP 2023 commitments for adding public egress and wildfire suppression impacts to the model. The v4 model consists of four components:

- Base Consequence Model
- Wildfire Suppression Impact Model
- Public Egress Impact Model
- Multi-Attribute Value function (MAVf)

The results of the Base Consequence, Wildfire Suppression, and Public Egress models are joined to determine the combined set of model results for acres burned, structures destroyed, and potential fatalities as shown in *Figure 4*. The combined model outcomes become the inputs into the MAVf to determine the final consequence value.

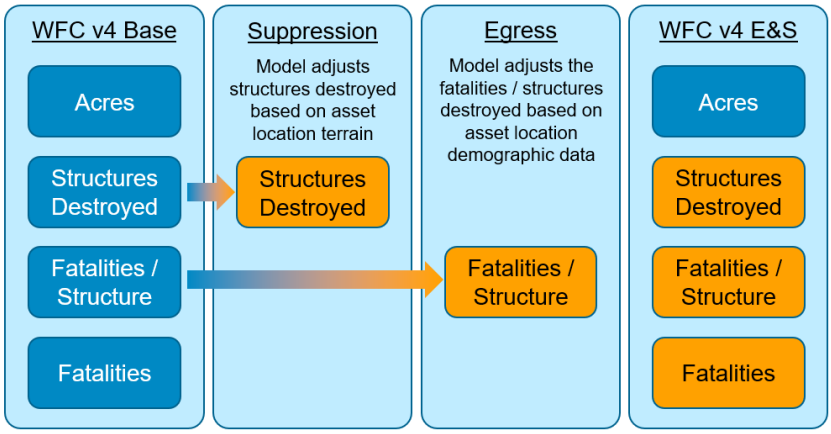


Figure 4 - Wildfire Consequence v4 Model Architecture

2.4.1 WFC Model Process Overview

A high-level process flow of WFC v4 components is depicted in *Figure 5* followed by brief descriptions of each. For an additional illustration of WFC v4 component impact on wildfire consequence, refer to *Appendix 6.4*.

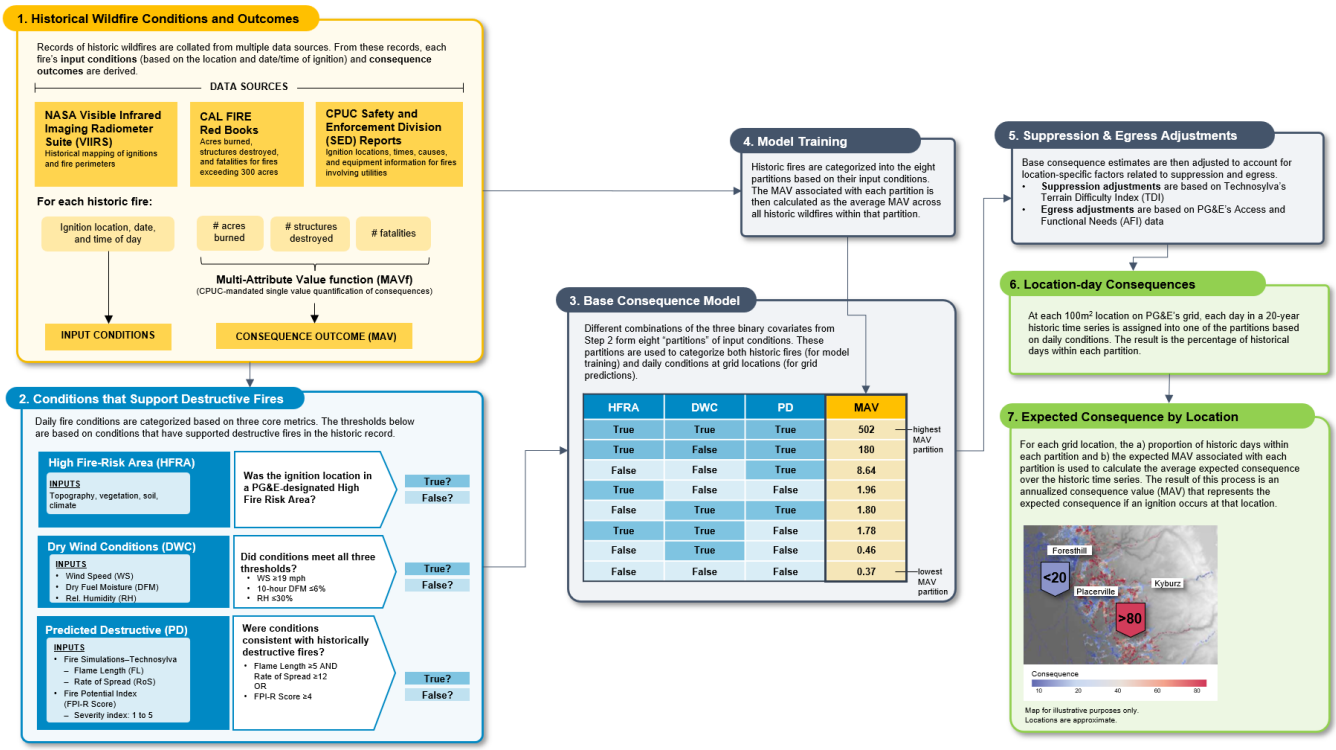


Figure 5 - WFC v4 Model Process Overview

2.4.1.1 Historical Fire Conditions and Outcomes

The WFC v4 is trained using historical wildfire datasets that together provide the times, locations, and consequence outcomes (i.e. acres burned, structures destroyed, and fatalities) for each fire event. Historical wildfire data is sourced from:

- NASA Visible Infrared Imaging Radiometer Suite (VIIRS) satellite data
- CPUC Safety and Enforcement Division (SED) reports
- CAL FIRE Red Books incident data

2.4.1.2 Conditions that Support Destructive Fires

The consequence model associates input conditions (such as weather, fuels, and terrain) with consequence outcomes.

- *High Fire Risk Area (HFRA)* indicates whether the grid location is within the HFRA.
- *Dry Wind Conditions (DWC)* indicates if the weather conditions exceed threshold levels for Wind Speed, Dry Fuel Moisture, and Relative Humidity.
- *Predicted Destructive (PD)* indicates if the Technosylva simulations outputs for Flame Length and Rate of Spread, or if PG&E's operational wildfire Fire Potential Index score, FPI-R, exceed threshold levels.

2.4.1.3 Base Consequence Model

Different combinations of the three destructive fire conditions form a Base Consequence table, representing eight permutations of input conditions, referred to in this document as "*partitions*". These partitions are used to categorize both historic fires for model training and daily conditions at grid locations for model predictions.

2.4.1.4 Model Training

Historic fires are categorized into eight partitions based on their input conditions. The MAV associated with each partition is calculated as the average MAV across all historic wildfires within that partition.

2.4.1.5 Suppression and Egress Adjustments

The Base Consequence Table of historic daily conditions partitions and average expected consequence MAVf values are adjusted for five levels of a Terrain Difficulty Index (TDI) impacting suppression effectiveness, and ten levels of an Access and Functional Needs (AFN) index reflecting public ability to egress.

2.4.1.6 Daily Location Consequence Predictions

Expected consequence for each location on the PG&E grid is calculated based on location-specific daily time series. For a given location, each day is assigned to one of the eight partitions based on the three binary covariates. The result is the percentage of historical days within each partition. At each $100m^2$ pixel location on PG&E's grid, each day in a 20-year historic time series is assigned into one of the partitions based on daily conditions. The result is the percentage of historical days within each partition.

2.4.1.7 Expected Seasonal Location Consequence

For each grid location, the a) proportion of historic days within each partition and b) expected MAV associated with each partition are used to calculate the average expected consequence over the historic time series. The result of this process is an annualized consequence value (MAV) that represents the expected consequence if an ignition occurs at that location.

2.4.2 Multi-Attribute Value function (MAVf)

The MAVf is used in the wildfire consequence model to transform historic wildfire consequences into a single comparable unit for the purposes of model training and prediction. The 2023 Risk Assessment and Mitigation Phase (RAMP) filing implemented a Cost Benefit Approach methodology update to the MAVf that is used for WFC v4. The primary changes to the MAVf are:

- The MAVf output is explicitly $1 million risk-adjusted 2023 dollars per unit of MAVf.
- The Value of Statistical Life (VSL) is $12.5 million, decreased from approximately $100 million.

Assumptions continued from the prior version of MAVf include:

- $1 million per structure destroyed
- Suppression cost is $1,157 per acre
- Serious injury costs are assumed to be 1:1 with fatalities and valued at $3.125 million (0.25 * VSL)
- A non-linear risk adjustment increases the consequences of more extreme events.

The MAVf update shifts consequence values away from loss of life and increases the importance of structures destroyed and acreage burned. The shift is partially mitigated by the correlation of loss of life with the number of structures destroyed. An analysis of the change in MAVf demonstrated minimal change to consequence distribution between WFC v4 and v3.4.

2.5 Performance

WFC v4 benefited from several improvements to the Base Consequence Model as well as the addition of adjustment models for wildfire suppression and public egress. As a result of model developments, WFC v4 produces consequence values that show a significant improvement in predicting wildfire outcomes.

2.5.1 Historical Wildfire Performance Improvement

The changes approved and implemented for WFC v4 were validated through comparison with WFC v3.4, including how proposed changes altered the ability of the model to account for historical fires. In general, the expectation is that the higher consequence areas should account for the majority of historical wildfire outcomes.

Figure 6 presents the relative performance for WFC v4 against WFC v3.4 for the three outcomes that are inputs to the consequence MAVf: acres burned, building destroyed, and fatalities. The graphs plot the fraction of historical fires accounted for against the ranked consequence pixel fraction. The rank consequence pixel fraction is determined by first ranking all consequence pixel values from highest to lowest, then finding the fraction of all pixels accounted for when the pixel that represents the ignition point for a historical wildfire is reached. Model performance improves as the resulting curve moves up and to the left.

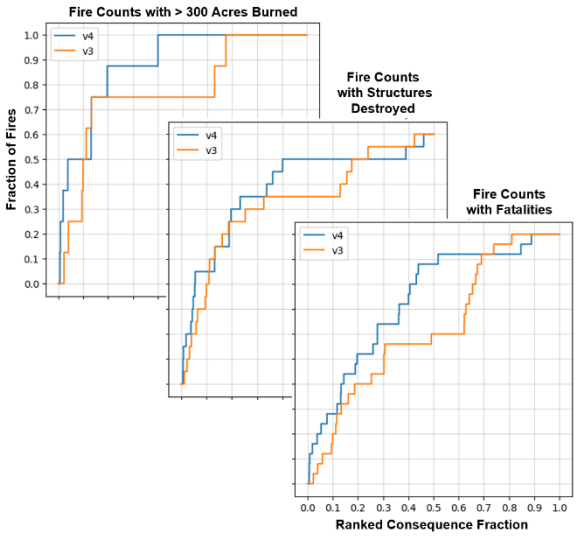


Figure 6 - WFC Historical Wildfire Performance

One way to interpret these graphs is to consider; if an ignition mitigation program were to be implemented in the order of ranked consequence values, how fast would the program reach the ignition points of historical wildfires? The steeper the initial rise of the curve, the quicker the historical ignition points would be mitigated.

WFC v4 outperforms WFC v3.4 for all three historical wildfire outcomes: acres burned, building destroyed, and fatalities. Therefore, the expectation is that WFC v4 will provide improved predictive outcomes for the consequence of ignitions at grid asset locations.

2.5.2 Feature Confusion Matrices

Feature confusion matrices can be used to examine the effectiveness of a feature on predicted outcomes.

Table 1 presents the confusion matrix for fatalities against the Predicted Destructive (PD) conditions feature. The matrix shows that a fatality is 14 times more likely to occur when PD conditions are present.

Table 1 - Fatalities / Predicted Destructive Confusion Matrix

Fatalities	Non-Predicted Destructive		Predicted Destructive		Ratio
One or more	4	0.103%	22	1.474%	14.3:1
None	3877	99.9%	1471	98.5%	0.99:1

Table 2 displays the confusion matrix for fatalities against the Dry Winds Conditions (DWC) feature. The matrix reveals that a fatality is 8 times more likely to occur when DWC is present.

Table 2 - Fatalities / Dry Wind Conditions Confusion Matrix

Fatalities	Non-Dry Wind Conditions		Dry Wind Conditions		Ratio
One or more	12	0.99%	8	8.16%	8.2:1
None	1196	99.0%	90	91.8%	0.93:1

3 Base Consequence Model

The WFC v4 Base Consequence Model is an improved version of the WFC v3.4 that incorporates improved historical fire data and a new Dry Wind Conditions (DWC) feature (see *Table 3* and Section 3.3.2), which further aids differentiating relative consequence during Predicted Destructive (PD) conditions.

Table 3 - WFC Base Consequence Decision Variables

Decision Variable	WFC v3.4	WFC v4
HFRA Membership	✓	✓
Dry Wind Conditions	X	✓
Predicted Destructive	✓	✓

3.1 Key Developments

Several improvements were implemented for modeling the Base Wildfire Consequence Model, explained in further detail in the Training Data and Covariates sections that follow:

- Improved historical fire data set quality
  - Incorporated additional historical fire data to train the model; which also increased sample size, included smaller fires, and improved estimates by merging multiple source data
  - Expanded number of years of fire records
  - Curated fire ignition locations
- Expanded Technosylva simulation time from 8 to 24 hours to improve large fire predictive performance
- Introduced Dry Wind Conditions (DWC) status to help differentiate the highest wildfire threat days

3.2 Training Data

A significant effort was made to improve the quality of the historical fire data set used to train the base consequence model. The training data is assembled from following sources:

- NASA Visible Infrared Imaging Radiometer Suite (VIIRS)
- CPUC Safety and Enforcement Division (SED) reports
- CAL FIRE Red Books

A sample of individual wildfire data is provided in *Appendix 6.2*, *Table 19*.

3.2.1 Visible Infrared Imaging Radiometer Suite (VIIRS)

VIIRS is a sensor package and data product produced by NASA consisting of high-resolution visible infrared images of land, atmosphere, as well as detection of fires, smoke, particles, etc. Data is collected by satellites that pass over the PG&E service territory every 10 to 12 hours; including date, time, location of first detection, fire evolution, and burn area estimate. The satellite raw detections for time, fire intensity, and location are processed by third-party vendor Sonoma Technology Inc. (Sonomatech, STi) through analysis into fire records and organized by unique VIIRS Fire IDs.

VIIRS Fire data provides the following crucial information for fires from 2012 to 2022:

- VIIRS Fire ID, derived from geo-spatial clustering
  (grouping geographic data points based on spatial proximity)
- Initial fire detection
  - Date and time stamp
  - Location
- Fire evolution
  - 10 to 12 hour update frequency
  - Burn area estimate

Satellite monitoring is limited by the need for a fire to endure and reach a certain size for a fire to be detected. Most fires larger than 300 acres persist long enough to be seen from space and therefore appear in the VIIRS data set. Smaller fires, particularly those of less than 10 acres, often do not get added to the VIIRS data set because they are frequently out and cold before a satellite passes over.

Another issue with satellite monitoring is that an initial fire detection often occurs several hours after an ignition due to the satellite pass frequency. Therefore, a fire can already be rather large at the time of detection, and the ignition point can be ambiguous in VIIRS. Furthermore, wind can blur the fire footprint, resulting in fire detection well away from the actual combustion area.

3.2.2 CPUC Safety and Enforcement Division (SED)

CPUC Safety and Enforcement Division (SED) investigates major fires that are suspected to involve an Investor-Owned Utility (IOU). The SED produces detailed reports on the ignition locations, times, causes, involved electrical equipment, Supervisory Control and Data Acquisition (SCADA) information (i.e., real-time data including voltage, current, watts, switch status), etc., pertinent to determining fire causes. The reports are compiled using information gathered from SED, IOU, and fire team sources.

3.2.3 CAL FIRE Red Books

CAL FIRE Red Books are annual publications on the outcomes of major fires that burned more than 300 acres. The recorded fire outcomes of acres burned, structures destroyed, and fatalities are used to calibrate the WFC with historical results. Unfortunately, using the CAL FIRE Red Book outcomes is a mostly manual process. Fire IDs must be joined with the Integrated Reporting of Wildfire Information (IRWIN) database to extract ignition locations that can be matched against VIIRS data.

3.2.4 Lightning Fires

During WFC development, analysis showed that the expansion of the historical fire training data set included several lightning-initiated fires that skewed the consequence model results away from conditions that are expected to have high consequence values. The skewed results were caused by several high impact fires that occurred in a HFRA during non-Predicted Destructive (PD) and non-Dry Wind Conditions (DWC) days ignited by lightning strikes[1]. Lightning fires often occur in highly remote locations[2] and/or during relatively benign conditions[3] . In these cases, the ultimate consequence, especially in terms of acres burned, is larger than would be expected for an electrical asset-initiated fire[2]. As a result, lightning fires in HFRA on non-Predicted Destructive (PD) and non-Dry Wind Conditions (DWC) days have been excluded from the historical fire training data set.

[1] Human-triggered California wildfires more severe than natural blazes (*Van Wyk Joel), 2026.*

[2] Extratropical forests increasingly at risk due to lightning fires (Veraverbeke et al.), November 9, 2023.

[3] Lightning-ignited wildfires in the western United States: Ignition precipitation and associated environmental conditions (Kalashnikov et al.), August 14, 2023.

3.3 Model Covariates

3.3.1 Technosylva Wildfire Simulations

Technosylva is a wildfire simulation and analysis company that produces products marketed to fire fighters, the insurance industry, and utilities. The PG&E Meteorology team contracts with Technosylva to provide FireSight (formerly WRRM) fire spread simulations under different fuel and weather conditions at historical fire and electrical asset locations throughout the distribution and transmission grid networks to determine destructive conditions. Two updates were requested for Technosylva wildfire simulation data for WFC v4:

- Localized simulation of historical fires
- 24-hour simulation times

Technosylva wildfire simulations were explicitly requested at the locations for historical fires from the VIIRS dataset for WFC v4. In contrast, WFC v3.4 used a wildfire simulation from the nearest electrical asset within an 8 km radius to any given VIIRS fire ignition location. In many cases, the fuel and weather conditions at the nearest asset were significantly different from conditions at the wildfire ignition point, leading to modeling issues for predicting consequence at asset locations. In some cases, for very remote wildfire ignition points, there would be no electrical assets within the 8 km search radius, and therefore the VIIRS fire would not be included in the training set. Sending explicit location and conditions data for historical wildfires to Technosylva for simulation both improved the quality and quantity of returned wildfire simulations for the WFC v4 training data set.

Reviews of WFC v3.4 raised concerns over the 8-hr time duration used for the Technosylva wildfire simulations. Most catastrophic fires last for days and sometimes weeks and at issue was whether or not a longer simulation time would help differentiate when a wildfire was likely to become catastrophic. Technosylva was tasked to produce both 8-hr and 24-hr wildfire simulations in support of WFC v4 development.

To analyze the impact of 8-hr vs 24-hr simulations, each historic fire from the fire training data set was paired with its 8-hr and 24-hr simulation results. The initial Pearson R correlation results for the 8-hr and 24-hr simulations were very low, only 0.0637 and 0.0795, respectively. Applying a logarithmic transform to the data improved the correlation results for the 8-hr and 24-hr simulations to 0.198 and 0.208, respectively. *Figure 7* presents a log-log plot of the historical fire simulation pairs with 8-hr results in blue (●) and 24-hr results in orange (●). Note that many of the 24-hr simulation pairs are shifted to a larger simulated burn size.

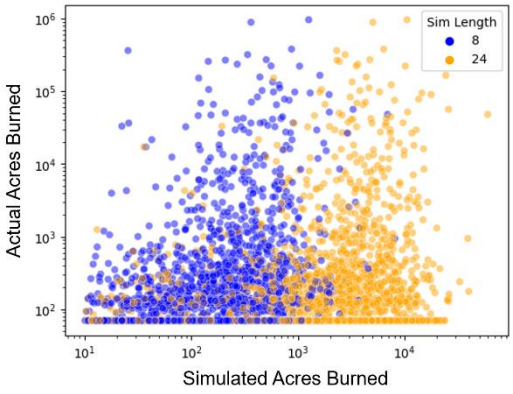


Figure 7 - 8-hr & 24-hr Fire Simulations (log-log scale)

The difference in 8-hr and 24-hr performance becomes clearer when the data pairs are binned as presented in *Figure 8*. The binned plot confirms a general shift to larger simulated burn size for 24-hr simulations. Importantly, the plot reveals a much smoother relationship between simulated and actual burn size for 24-hr simulations.

In the end, 24-hr wildfire simulations were chosen to develop the WFC v4 model due to the smoother relationship between simulated and actual burn sizes. However, the overall impact to relative consequence values was minimal.

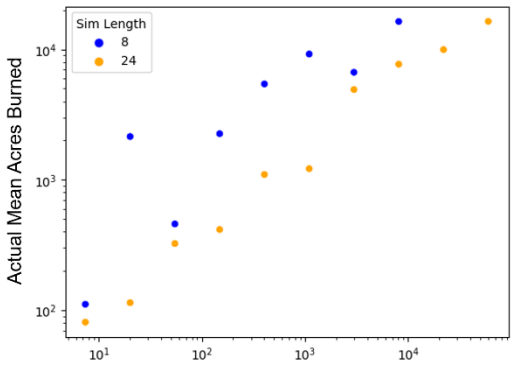


Figure 8 - Binned 8-hr & 24-hr Fire simulations (log-log scale)

3.3.2 Dry Wind Conditions (DWC)

A Dry Wind Conditions status was developed for the consequence modeling in response to both internal and external reviews of WFC 3.4 recommending the inclusion of Red Flag Warnings (RFW) issued by the National Weather Service (NWS). RFW warnings are issued by the NWS when there are weather conditions that would intensify fires.

The PG&E Enterprise Risk Management (ERM) team shared their research findings with the RaDA team that supported that destructive and catastrophic fires occurred primarily during RFW. A RaDA team analysis uncovered two significant issues with using RFW as a consequence model covariate:

- RFWs are issued for Fire Weather Zones (*Figure 9*) that are defined by an arbitrary mixture of watershed areas, ridgelines, and jurisdictional boundaries such as county lines.
- RFW declaration criteria is not consistent across each Fire Weather Zone and create geospatial discontinuities in RFW data – an RFW declared for one zone while RFW is not declared for a second zone with identical weather conditions. *Appendix 6.1* provides specific RFW criteria for Fire Weather Zones.

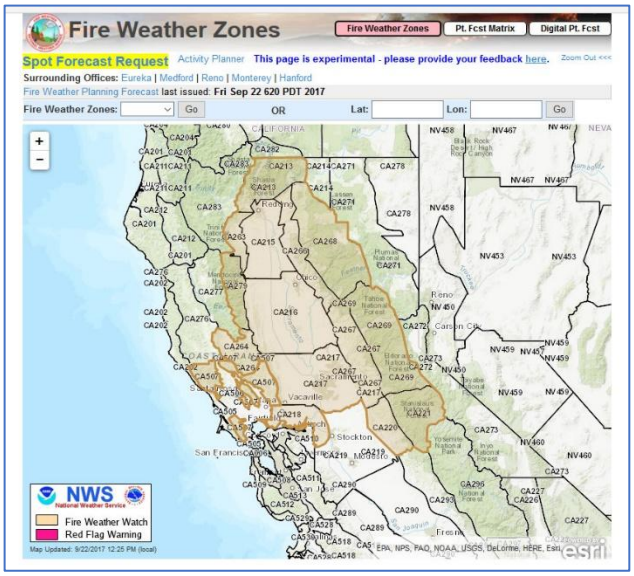


Figure 9 - NWS Fire Weather Zones

RFW inconsistencies cause problems when trying to fit it as a model covariate as the result may be a prediction based on RFW definition rather than actual local conditions. To avoid the RFW inconsistency issue, the RaDA team developed DWC as an internal status covariate. DWC is simply a variation of RFW limit criteria applied evenly across the service territory as shown in *Table 4* The limit criteria for wind speed and relative humidity were aligned with similar criteria used for PG&E Meteorology's Fire Potential Index R-score.

Table 4 - Dry Wind Conditions Criteria

Measurement (daily average)	Limit
Wind Speed	>= 19 mph
10-hr Dry Fuel Moisture	<= 6%
Relative Humidity	<= 30%

3.3.3 Predicted Destructive (PD)

The Predicted Destructive (PD) conditions status, developed for WFC v3, combines results from PG&E Meteorology's Fire Potential Index (FPI) and Technosylva's fire simulation results for flame length (FL), the distance from flame tip to the middle of fire base, and rate of spread (RoS) indices. Wildfire conditions are assessed by assigning odds of destructive fire outcomes, expressed as an FPI-R score ranging from 1 to 5, capturing fire severity as a function of FL and RoS. If simulated or predicted outcomes are consistent with those given to past destructive fires, the day/location is assigned a Predicted Destructive (PD) status.. *Table 5* shows the criteria for determining the Predicted Destructive (PD) status of a location for any day in the wildfire season.

Table 5 - Predicted Destructive Criteria

Measurement (daily value)	Limit
FPI-R	>= 4
OR	
[Flame Length	>= 5
AND	
Rate of Spread	>= 12**]**

3.3.3.1 Fire Potential Index R-score (FPI-R)

The Fire Potential Index R-score (FPI-R), developed and maintained by the PG&E Meteorology Team, is a critical tool for determining the probability of a fire becoming large or catastrophic, in order to drive operational decisions for reducing utility-caused fires risk such as Public Safety Power Shutoff (PSPS) events and grid protection settings. The FPI is modeled at a 2 km by 2 km spatial resolution, providing data at hourly intervals for operational uses and daily intervals for planning uses. Daily interval FPI-R data is used for consequence model development. The FPI-R methodology did not implement any significant updates between WFC v3.4 and WFC v4. *Table 6* provides FPI-R Score rating descriptions.

Table 6 - FPI-R Score Ratings

State	Rating	Description
Low	R1	Very little or no fire danger
Moderate	R2	Moderate fire danger
High	R3	Fire danger is so high that care must be taken using fire-starting equipment. Local conditions may limit the use of machinery and equipment to certain hours of the day.
Very High	R4	Fire danger is critical. Using equipment and open flames is limited to specific areas and times.
Extreme	R5	Open flames not allowed in certain areas.
Public Safety Power Shutoff (PSPS)	R5+	The greatest level of fire danger where rapidly moving, catastrophic wildfires are possible. This is typically when fire danger is R5 "plus" and there are high-risk weather triggers.

3.4 Base Consequence Table Construction

The Base Consequence Model partition table associates input conditions with consequence outcomes derived from historic wildfires.

- *High Fire Risk Area (HFRA)* indicates whether the grid location is within the HFRA.
- *Dry Wind Conditions (DWC)* indicates if the weather conditions exceed threshold levels for Wind Speed, Dry Fuel Moisture, and Relative Humidity.
- *Predicted Destructive (PD)* indicates if the Technosylva simulations outputs for Flame Length and Rate of Spread, or if PG&E's operational wildfire Fire Potential Index score, FPI-R, exceed threshold levels.

The three core criteria are used as stratifying variables to create eight distinct "partitions" of input conditions. The eight condition partitions are referred to using a descriptive shorthand of their respective true or false statuses in the order of HFRA, Dry Wind Conditions (DWC), and Predicted Destructive (PD). Hence, the consequence partition for a location in a HFRA, on a day not under Dry Wind Conditions (DWC), but on a Predicted Destructive (PD) day is referred to as a "T/F/T" partition wildfire.

Each historic wildfire in the training dataset is assigned into one of the eight partitions based on the input conditions associated with the location/day of ignition. For each historic wildfire, consequence is calculated based on acres burned, structures, destroyed, and fatalities using the MAVf. The expected consequence associated with each partition is then calculated as the average MAV for the historic fires that were assigned into that partition. The MAV for each partition is then used to calculate expected consequence on the grid (see *Section 3.5* below). By partitioning locations based on consequence estimates, mitigation work can focus on the highest fire spread consequence areas to achieve the greatest risk reduction.

A sample of individual wildfire data is provided in *Appendix 6.2*, *Table 19*. The consequence values of all member wildfires are summed and averaged to determine the consequence value for a partition. The WFC v4 base consequence partition values are provided in *Table 7*.

Table 7 - Base Consequence Table

HFRA	Dry Wind Conditions	Predicted Destructive	MAVf
True	True	True	502
True	True	False	1.78
True	False	True	180
True	False	False	1.96
False	True	True	1.80
False	True	False	0.46
False	False	True	8.64
False	False	False	0.37

3.5 Base Consequence Partition Table Application

The Base Consequence Partition Table assigns average consequence values for grid asset locations for every fire season day from 2012 through 2022. Each wildfire season is defined as the 183 days from June 1st through November 30th. With 11 wildfire seasons, daily consequence values can be assigned to a total of 2,013 days. In other words, the model assumes that for a given location, the expected consequence for each day in the time series is the average consequence for all historic wildfires that had the same input conditions as the prediction location/day. These individual daily predictions are then averaged across the entire time series to produce base consequence value for a given grid location.

Consider the following specific example of the process described above. Referring to *Table 8*, across a full set of wildfire season days, an electric grid pixel located in an HFRA ("T"), with no Dry Wind Conditions (DWC) ("F"), and no Predicted Destructive (PD) conditions ("F"), is categorized into a "T/F/F" partition and assigned an average MAVf consequence value of 1.96 (meaning that the average MAV of historic wildfires in the T/F/F partition is 1.96). This is considered lower risk than a grid pixel located in an HFRA ("T"), with Dry Wind Conditions (DWC) ("T") and Predicted Destructive (PD) conditions ("T") which is categorized as "T/T/T" partition with an average MAVf consequence value of 502. For each grid pixel historic conditions partition, MAVf consequence is multiplied by the number of wildfire season days to produce MAVf sums. Then, each grid pixel conditions partition MAVf sum is summed to calculate a total MAVf sum (127,554), then divided by the total number of wildfire season days (2,013) to produce a total average MAVf consequence = 63.4 for the wildfire season. Note that while the very different MAVs associated with the individual partitions would appear to suggest consequence model outputs are very polarized – these are applied at the level of daily predictions. For each location, individual days will be assigned to the partitions at rates that vary by location. The subsequent step of annualizing/averaging the daily consequence smooths the final results and results in a range of average MAVs beyond just those visible in the partition table.

Table 8 - Asset Location Base Consequence Value Example

HFRA	Dry Wind Conditions	Predicted Destructive	MAVf	Wildfire Season Days	MAVf Sum
True	True	True	502	50	25,100
True	True	False	1.78	150	979
True	False	True	180	550	99,000
True	False	False	1.96	1,263	2,475
Total				**2,013**	**127,554**
Average			**63.4**		

4 Adjusted Consequence

In compliance with WMP 2023 commitments, PG&E investigated the potential impacts of suppression efforts and public egress on wildfire consequence predictions. Subsequently, consequence impact models were developed for both Wildfire Suppression and Public Egress.

The Wildfire Suppression and Public Egress Models impact consequence by adjusting the number of structures destroyed and fatality rates determined by the Base Consequence Model, and changing the input values used by the consequence MAVf calculation. In this context, the Base Consequence Model (and its outputs) should not be interpreted to estimate consequences without suppression or egress. Instead, they should be interpreted to estimate consequences without considering spatial differences in the relative ease of carrying out suppression or egress. The Adjusted Consequence Model adds additional covariates intended to model the aspects of suppression and egress that were feasible to account for with the available data.

Supplementing the Wildfire Suppression and Public Egress Model descriptions in the following sections, *Appendix 6.3* presents example Adjusted Consequence Model table data calculated for the 2018 Dixie Fire. Note that the data in the appendix was determined from intermediate development models, not the final WFC v4, and are only for illustrating the relative impacts of the consequence adjustment models.

4.1 Wildfire Suppression Impact Model

The Wildfire Suppression Impact Model was investigated and developed in response to a WMP 2023 commitment to consider the effect of wildfire suppression activities on ignition consequence. A major challenge for modeling suppression is the extreme difficulty of understanding historical state, regional, and local responses to ignition events and anticipating how future ignitions will be managed. After extensive research, the fraction of surviving structures within a burn area was selected as an observable proxy for suppression effectiveness.

Wildfire suppression impacts on consequence need to consider factors such as:

- Policy issues that originate from the responsible management authority for a wildfire location and reflect their mandates, priorities, and objectives for suppressing a wildfire.
- The location and availability of firefighting resources that can be allocated during a wildfire. Resource allocation decisions can be affected by concurrent fires or other public needs, accessibility to roads, terrain issues, etc.
- The real-time decision-making by personnel in the field as fire captains with varying degrees of experience evaluate evolving weather conditions, fire conditions, and threats to life and property.

The feasibility of capturing suppression complexities in a model is limited by the usually sparse and often complete lack of availability of data relating each of the factors to actual wildfire outcomes. After considerable exploratory research, the Wildfire Suppression Impact Model was developed using the fraction of surviving buildings within a burn area as a proxy for suppression effectiveness.

The Suppression Impact Model uses as its primary input a Technosylva product, the Terrain Difficulty Index (TDI). TDI considers several factors including terrain steepness, equipment delivery and set-up, and distance from major roads, that correlate with the relative challenges faced by firefighters when combatting a wildfire event. The Suppression Impact Model uses the TDI to modify the estimated number of structures destroyed that was predicted by the Base Consequence Model.

4.1.1 Key Developments

The crucial development activity for creating a Wildfire Suppression Impact Model was the determination to use building survival fraction from historical fires as a proxy value for suppression effectiveness.

The primary objective for fighting a wildfire is to protect life and property, with an emphasis on saving lives. Unfortunately, it is difficult to obtain precise data on the successful protection of lives for a given wildfire. However, Wildfire Public Egress Impact Model development, discussed in *Section 4.2* has established that there is a consistent relationship between lives lost and the number of buildings destroyed by a wildfire. Therefore, success at protecting structures, in terms of the fraction of structures undamaged after a wildfire, will also imply success at protecting lives.

The number of structures destroyed by any given wildfire is publicly available through the annual CAL FIRE Red Books. The number, type, and locations of buildings that stood prior to a given wildfire can be obtained from the data records of Open Street Map. From this data, the fractional loss of buildings can be determined for historical wildfires.

4.1.2 Historical Wildfire Suppression Outcome Model

4.1.2.1 Model Structure

The historical wildfire suppression outcome general model structure that was explored for developing the wildfire suppression impact model took the form of:

$$Structure\ Loss\ Fraction\ \cong f(Fuels, Terrain, Weather)$$

Where:

Variable	Description
Structure Loss Fraction	Expected fraction loss of buildings due to wildfire
Fuels	Localized fuel information
Terrain	Localized terrain information
Weather	Localized weather at time of wildfire

The modeling structure was based on the original hypothesis that a wildfire in a remote, difficult terrain, with abundant, dry fuels, and with extenuating weather like high wind and temperature would lead to suppression difficulties and therefore more building loss.

4.1.2.2 Training Data

The training data for the historical wildfire suppression outcome model was assembled from two sources:

- CAL FIRE Red Books
- OpenStreetMap

The CAL FIRE Red Books are annual publications on the outcomes of major fires that burn more than 300 acres with recorded fire outcomes of acres burned, structures destroyed, and fatalities.

OpenStreetMap is an open source geographic database that includes a buildings data set with location and structure type information. The data set is used to determine the number of existing structures that existed prior to historical wildfires.

4.1.3 Covariate Selection

4.1.3.1 Covariate Pool

The covariates considered and tested for the Historical Wildfire Suppression Impact Model follow.

4.1.3.1.1 Terrain Difficult Index

The Wildfire Suppression Impact Model uses the Terrain Difficulty Index (TDI), a proprietary data product developed and maintained by Technosylva that draws upon their Accessibility, Penetrability, and Fireline Opening Indexes. The TDI, a composite index with values from 1 to 5, uses local topography and other factors to determine speed and access from public roads and fire line feasibility for service territory equipment asset locations. TDI is used for modifying the predicted fraction of surviving structures as a reflection of wildfire suppression effectiveness. Additional information on using

Technosylva's TDI to assess wildfire suppression difficulty is provided in the white paper referenced below[4]. TDI Categories and their descriptions are shown in Table 9.

Table 9 - TDI Categories

Category	Description
1 - Very Low	No accessibility limitations to the firefighting resources, allowing quick deployment of wildfire suppression ground resources
2 - Low	High density of tracks and paths. Terrain conditions allow the deployment of wildfire suppression ground resources
3 - Medium	Roads and tracks are slightly more difficult to access, and terrain is mildly difficult with increasing slopes
4 - High	Low density of roads/tracks in the area. Difficult terrain access with limitations to ground travel
5 - Extreme	Very low density of tracks/roads to support strategies. Highly complex terrain conditions including high-slope areas limit the use of heavy equipment

4.1.3.1.2 Fuel Conditions

Fuel conditions from the PG&E Meteorology team, including live and dead 10-hr, 100-hr, and 1000-hr fuel biomass and fuel moisture levels.

4.1.3.1.3 Weather Conditions

Weather condition assessments from PG&E Meteorology, especially those that pose adverse conditions for suppression, such as relative humidity (RH), wind speed (WS), etc.

[4] Assessing the suppression difficulty of wildland fires for initial attack response (Cardil et al.), December 11, 2025.

4.1.3.2 Fitted Historical Wildfire Suppression Outcome Model

After evaluation, a binomial regression algorithm was selected to model historical wildfire outcomes. The model took the form of:

$$Log\ Odds\ of\ (Fractional\ Structure\ Loss) \cong a * TDI + b * WS + c * LFM + intercept$$

Where:

Variable	Description
Structures Destroyed	Expected number of structures destroyed by wildfire
Structures	Existing structures
LFM	Live fuel moisture of chamise vegetation smoothed to 1 km radius
TDI	Technosylva Terrain Difficulty Index
WS	Wind speed in mph at 300 m above the surface
a, b, c, intercept	Regressed coefficients

Table 10 provides an abridged summary of the model regression results.

Table 10 - Historical Fire Suppression Outcome Model Regression Results

Covariate	Coefficient	P-value
TDI (a)	1.3323	0.000
Wind Speed (b)	0.1100	0.000
Live Fuel Moisture (c)	-0.0774	0.000
intercept	-0.8676	0.000

Inclusion of TDI improves the predictive power of the Wildfire Suppression Model and is the single best performing covariate in the model. As is appropriate for a model of its type, error in model predictions is quantified via residual deviance. *Table 11* provides statistical deviance ratios of the model covariates. The null model is based on the average structure loss across historical fires (no explanatory covariates). Since total deviance is a measure of model error, improved models have ratios less than 1, and a perfect model would have zero total deviance and a ratio of 0.

Table 11 - Wildfire Suppresion Model Covariate Performance

Model	Deviance Ratio
Null	1.000
Wind Speed	0.980
TDI	0.814
LFM	0.970
Full	0.755

Referring to *Figure 10*, from the regression results, it can be observed that the TDI value is most critical to understanding historical fire suppression in terms of fractional building loss. The TDI coefficient is an order of magnitude more important that LFM and WS to modeling the historical wildfires. The model also confirms a common sense of understanding of TDI and wildfire suppression, where higher TDI values, and therefore more remote, rugged locations, will result in a higher fraction of wildfire building loss. Inclusion of TDI improves the predictive power of the Wildfire Suppression Model and is the single best performing covariate in the model.

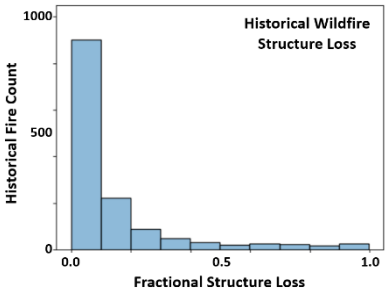


Figure 10 - Historical Wildfire Suppression Outcomes

The Suppression Impact Model is built by applying the Historical Wildfire Suppression Model to perform a series of what-if predictions at each historical fire location to examine the change in expected outcome in response to evaluating alternative TDI levels, 1 through 5.

Figure 11 visualizes the predicted wildfire outcomes for TDI level 1, 3, and 5. TDI level 1, the lowest level, outcomes skew to dramatically lower fractional structure loss when compared to the historical outcomes. TDI level 3, the middle level, shifts expected consequence significantly higher. Finally, TDI level 5, the highest level, predicts outcomes that are likely to lead to almost complete structure loss for a wildfire.

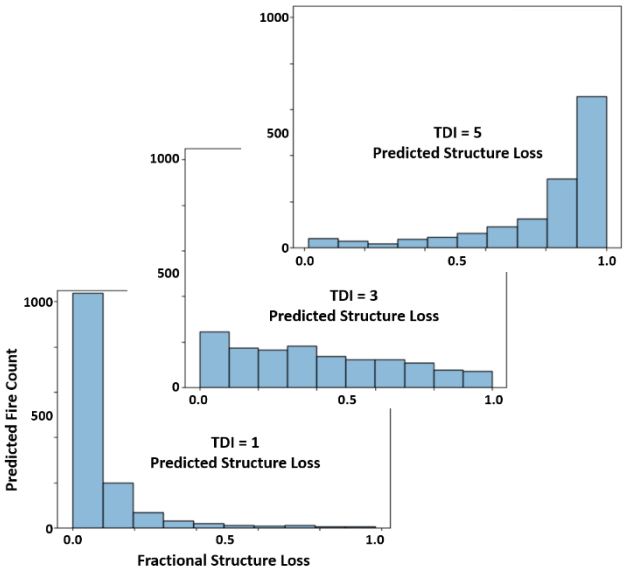


Figure 11 – TDI Level Predicted Wildfire Outcomes

The predicted wildfire outcomes for the alternative TDI levels can also be compared to the historical wildfire outcomes by determining their mean consequence values using the MAVf algorithm. *Table 12* reports the mean wildfire consequence values for the historical and predicted wildfire outcomes. As expected, as terrain becomes more rugged and remote and the TDI level increases, the consequence for predicted outcomes becomes more severe.

Table 12 - TDI Level Consequence

TDI Level	Consequence
Historical	312.1
1	272.4
2	309.9
3	361.6
4	425.9
5	474.7

4.1.3.3 Historical Wildfire Suppression Outcome Model Application

The Historical Wildfire Suppression Outcome Model is applied to each historical fire to examine how TDI level would have impacted the number of buildings destroyed. The integration of suppression data from the analysis of the historical fires to construct a final consequence model is described in Section 4.3.

4.2 Public Egress Impact Model

The Wildfire Public Egress Impact Model was researched and developed in response to a WMP 2023 commitment to consider the effect of the ability of the public to leave the path of wildfire on the final consequence of an ignition event. Determining the likely success of egress is a challenge as there is no concrete historical data that can be used to train a model. However, research showed that wildfire fatalities mostly occur inside structures and the number of fatalities is highly correlated with the number of structures destroyed. Therefore, the Wildfire Public Egress Impact Model was built to predict the number of fatalities per structure destroyed by a wildfire.

A major challenge for modeling egress is the difficulty of understanding historical state, regional, and local responses to ignition events and anticipating how future ignitions will be managed. Public egress impacts on consequence need to consider factors such as:

- Policy issues that originate from the responsible management authority for a wildfire location and reflect their mandates, priorities, and objectives for initiating and managing a public evacuation in response to a wildfire.
- Number of egress routes available, volume capacity of egress routes, and public mobility in the predicted path of a wildfire.
- The number of people that choose, or conversely refuse, to follow an evacuation order.
- The real-time decision-making by public safety personnel in response to evolving weather conditions, fire conditions, and threats to life and property.

The feasibility of capturing public egress complexities in a model is limited by the usually sparse and often complete lack of data relating each of the factors to actual wildfire outcomes. After considerable research, the Wildfire Public Egress Impact Model was developed to predict the ratio of the number of fatalities that will occur per number of structures burned as a proxy for egress effectiveness.

Egress research revealed a definite bias for those with mobility issues due to age, medical conditions, or vehicle availability as most likely to become wildfire victims. The Egress Impact Model was trained to consider the Access and Functional Needs (AFN) index as a proxy for mobility issues. The model predicts a relatively higher ratio of fatalities to structures destroyed in areas where there are higher concentrations of the public characterized as AFN.

The Public Egress impact is interactive with the Wildfire Suppression impact. If the Suppression Impact lowers the relative number of structures destroyed, then it will also lower the expected number of fatalities due to egress issues.

4.2.1 Key Developments

The critical development activity for creating a Wildfire Public Egress Impact Model was the decision to use fatalities-per-structure-burned ratio as a proxy value for suppression effectiveness. This modeling decision was based on a key assumption that when a structure burns due to a wildfire, its occupants must either evacuate or fall victim to the fire.

Several potential contributors to Egress impacts were investigated, of which personal mobility and roadway congestion were of particular interest. Interestingly, it was discovered that personal mobility was the important quantifiable factor. While roadway congestion is believed to play some role, model regressions failed to find a significant relationship, most likely due to the small number of fires with actual roadway fatalities.

4.2.2 Historical Wildfire Egress Outcome Model

4.2.2.1 Model Structure

The historical wildfire egress outcome general model structure that was explored for developing the wildfire egress impact model took the form of:

$$Log\ Odds\ of\ (Fatality\ Fraction) \cong f(Road\ Miles\ per\ Capita, Mobility)$$

Where:

Variable	Description
Fatality Fraction	Expected fractional loss of life per buildings burned
Road Miles per Capita	Localized route capacity information
Mobility	Localized public mobility information

4.2.2.2 Training Data

Training data for the Historical Wildfire Egress Outcome Model was assembled from NASA VIIRS data. There were 170 wildfires where either burned structures or fatalities were recorded, which became the training data set for Public Egress Impact Model development.

4.2.3 Covariate Selection

With only 170 wildfires available for the training data set, only a limited number of variables could be used for any given model evaluation to prevent regression model overfit. Covariate selection was strongly influenced by exploratory analysis of historical fires such as Tubbs, Nunns, and Camp. *Figure 12* is an illustration of an egress covariate analysis of the 2018 Camp Fire. Fire victims were found in structures and the overwhelming majority of people in vehicles, 99.98%, reached safety.

The 2018 Camp fire provides an interesting case study for egress[5]:

- 50,000 people in about 25,000 vehicles evacuated Paradise, Concow, Magalia and the surrounding area.
- 19,500 buildings were destroyed.
- The median age for Camp Fire victims was 72 years.
- 85 fatalities were attributed to the fire.
  - 67 victims were age 64 or above.
  - 73 victims were found in or near their own home, and many had identifiable disability or mobility problems.
  - 5 victims were on foot with no evidence they were ever in a car.
  - Only 9 victims were found in a car or near their car having fled on foot.
- Multiple evacuation routes became completely obstructed.
  - 2 of 4 major routes from Paradise were completely obstructed for most of the evacuation period.
  - Evacuees experienced severe gridlock with many taking over 10 hours to travel just a few miles.
  - 23 burnover events impacted the roadways.
  - 230 vehicles were abandoned major roadways.

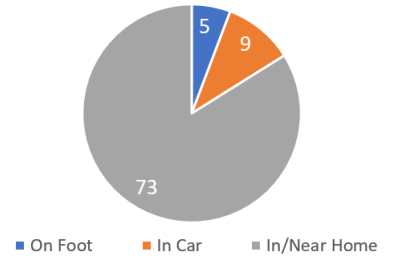


Figure 12 - Camp Fire Fatality Locations

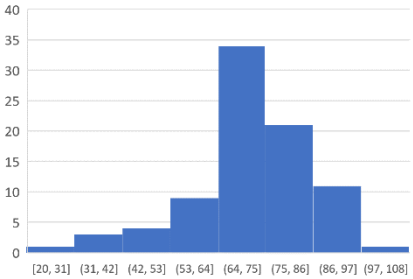


Figure 13- Camp Fire Fatalities by Age

To summarize, 86% of the Camp Fire victims were found in structures and the overwhelming majority of people in vehicles, 99.98%, reached safety. *Figure 13* shows an age distribution for the Camp Fire fatalities.

4.2.3.1 Covariate Pool

The Camp Fire case study led to considering personal mobility proxy covariates for the Historical Wildfire Suppression Outcome Model:

- Census data on older resident demographics
- PG&E data on Medical Base Line needs (MBL) customer fraction
- PG&E data on Access and Functional Needs (AFN) customer fraction
- Road congestion

Census data and MBL, while producing modest relationships for the historical fires, were rejected as covariates. Census data is not available with enough fine granularity to predict with spatially. The percentage of MBL customers in the PG&E service territory, 5.8%, was too sparsely distributed to be useful as a covariate.

[5] A Case Study of the Camp Fire - Notification, Evacuation, Traffic, and Temporary Refuge Areas (NETTRA), July 18, 2023

Potential road congestion, which is often suggested as a covariate by subject matter experts such as firefighters and wildfire analysts, was also rejected as a variable mostly due to a lack of usable information pertinent to modeling. A road availability proxy value available from Technosylva was tested but resulted in unstable regressions with poor covariate significance. While there may be a relationship between road congestion and wildfire fatalities, a means to successfully model the relationship eluded the development for this version of Egress impact modeling.

AFN was selected as a covariate for the Wildfire Public Egress Impact Model. AFN is an all-encompassing term for any PG&E customer who:

- Is classified as MBL
- Has a mobility issue
- Is hearing-impaired
- Is visually impaired
- Is a life support customer
- Self-identified as vulnerable
- Over the age of 65

Approximately 33% of the PG&E customer base has an AFN status. Therefore, AFN provides a much more detailed view of demographic impacts that could influence wildfire evacuation. Even so, modeling results between AFN and wildfire fatalities were modest, but stronger than for the rejected covariates.

The AFN value used in the egress model is derived from PG&E service point location data and represents the proportion of the nearby population with AFN that may make evacuation more challenging during a wildfire. The model applies a spatial smoothing approach, called Gaussian convolution, that allows nearby populations to contribute to the AFN value, while giving less weight to populations farther away. This reflects the fact that a wildfire can threaten communities beyond its ignition point. A 10-kilometer smoothing distance was selected to approximate the population that could be affected by a wildfire, based on the typical first-day spread distance of historical fatal fires.

In some remote areas, there are very few customers or residents, making it difficult to reliably estimate the local proportion of people with Access and Functional Needs (AFN). To address this, the model applies a stabilization approach that prevents AFN values in sparsely populated areas from falling below a reasonable baseline (the service territory average AFN value). This helps produce more reliable estimates where data are limited, while having little to no effect in more densely populated areas (defined as areas with more than one person per square kilometer), where sufficient local information is available.

4.2.3.2 Fitted Historical Wildfire Egress Outcome Model

After evaluation, a binomial regression algorithm was selected to model historical wildfire outcomes. The model took the form of:

$$Fractional\ Fatalities\ \cong a * AFN + b * WS + intercept$$

Where:

Variable	Description
Fractional Fatalities	Expected fractional number of fatalities from wildfire
AFN	Blurred Access and Functional Needs value
WS	Wind speed in mph at 300 m above the surface
a, b, intercept	Regressed coefficients

Table 13 provides an abridged summary of the Historical Wildfire Egress Model regression results. *Figure 14* illustrates the relative change in fatality rate as a function of AFN fraction deciles. The table has been normalized to the 5th decile result. Inclusion of AFN improves the predictive power of the Wildfire Egress Model.

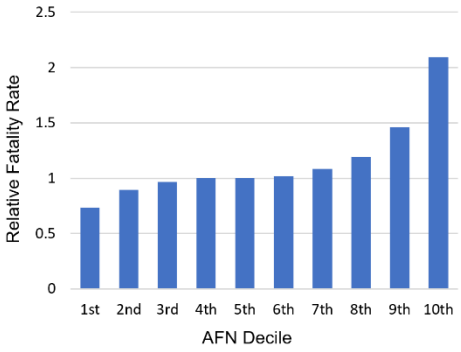


Figure 14 - Fatality Rate - AFN Relationship

Table 13 - Historical Egress Outcome Model Regression Results

Covariate	Coefficient	P-value
AFN (a)	3.0006	0.000
Wind Speed (b)	0.0133	0.000
intercept	-7.2095	0.000

Table 14 below provides the total statistical deviance ratio of the model with the AFN covariate, which improved model predictive performance. The "null" model is based on the average number of fatalities per-structure across historical fires with fatalities (no explanatory covariates). Since total deviance is a measure of model error, improved models have ratios less than 1, and a perfect model would have zero total deviance and a ratio of 0.

Table 14 - Wildfire Egress Model Covariate Performance

Model	Deviance Ratio
Null	1.000
Wind Speed	0.965
AFN	0.967
Full	0.898

4.2.3.3 Historical Wildfire Egress Model Application

The Historical Wildfire Egress Outcome Model is applied to each historical fire to examine how AFN decile level would have impacted the number of fatalities. The integration of egress data from the analysis of the historical fires to construct a final consequence model is described in *Section 4.3*.

4.3 Adjusted Consequence Methodology

Base consequence for any specific fire season day, as discussed in *Section 3*, is determined from a combination of location HFRA membership, Dry Wind Conditions (DWC), and Predicted Destructive (PD) conditions. These three stratifying variables identify eight distinct partitions for wildfire consequence. The eight partitions are referred to using a descriptive shorthand of their respective true or false statuses in the order of HFRA, DWC, Predicted Destructive (PD). Hence, the consequence partition for a location in HFRA, on a day not under Dry Wind Conditions, but on a Predicted Destructive day is referred to as "T/F/T".

The consequence adjustment methodology expands each of the eight base consequence partitions from a single consequence value to a 5 by 10 matrix of consequence reflecting the TDI level and AFN Decile for a grid asset location. The matrixed consequence values are determined by first applying the Suppression Impact Model described in *Section 4.1*, then the Egress Impact Model described in *Section 4.2*.

Figure 15 provides an overview of how Suppression and Egress impact the predicted outcomes that are input to the MAVf to determine a consequence value for a location on a particular day.

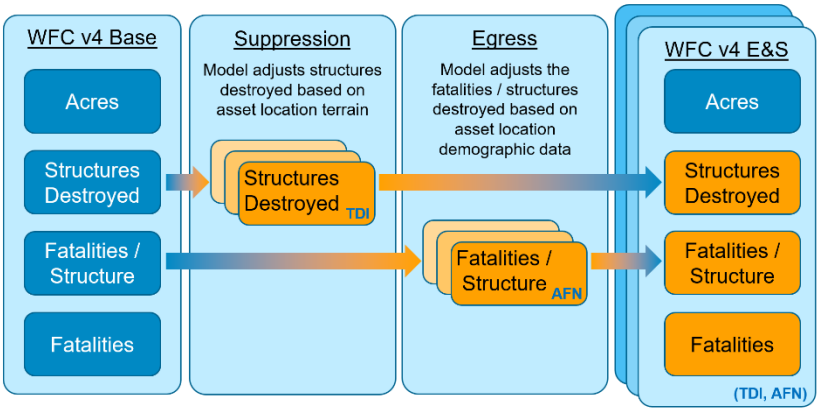


Figure 15 - Overview of Wildfire Consequence with Suppression and Egress Impacts

4.3.1 Consequence Regime Table Construction

The Adjusted Consequence Partition Tables are constructed by evaluating each of the historical fires that ignited under the specific partition conditions. This process is repeated for each historical fire recorded for a consequence partition. Finally, the consequence values for each TDI – AFN combination are averaged across all of the partition historical fires, resulting in a final consequence matrix as shown in *Table 15* for the T/F/T partition. Note that as the majority of historical fires in the T/F/T partition are not catastrophic that, unlike the Dixie Fire, the average consequence values are much lower.

Table 15 - T/F/T Consequence Regime Table

TDI Level	AFN Decile									
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
1	45	45	45	45	45	45	45	45	46	47
2	98	99	99	99	99	99	99	100	101	104
3	217	218	219	219	219	219	220	221	224	231
4	409	412	414	414	414	415	416	418	424	438
5	621	626	628	629	629	630	632	636	644	666

The T/F/T consequence regime Suppression and Egress impacts relationship can also be visualized graphically, producing the plot shown in *Figure 16*. Note that the plotted point colors are coordinated with the row colors of *Table 15* above. On the plot it is easy to understand how both TDI Level and AFN Decile impact the relative consequence value for a consequence regime.

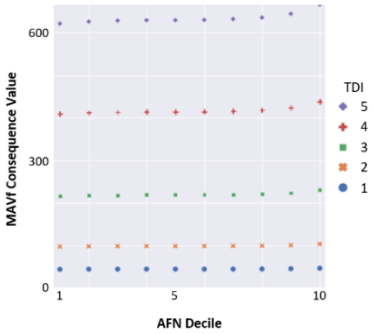


Figure 16 - T/F/T Consequence Partition

Figure 17 below displays the four consequence partitions generated for WFC v4 for assets located inside the HFRA for the four possible combinations of Dry Conditions (DWC) and Predicted Destructive (PD). The y-axis axis is the consequence value range that is different for each partition, with three orders of magnitude difference between highest and lowest consequence values.

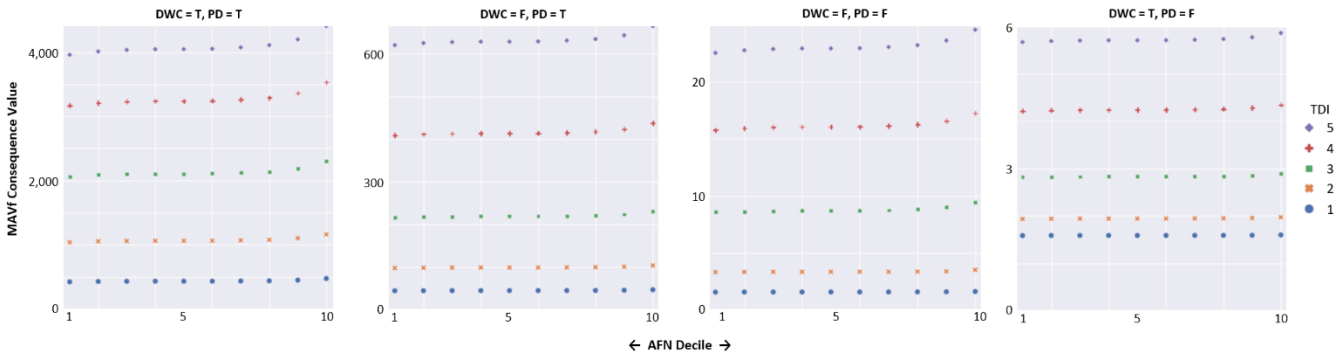


Figure 17 - Consequence Partitions for HFRA Asset Locations

Figure 18 displays the four consequence partitions generated for WFC v4 for assets located outside the HFRA for the four possible combinations of Dry Wind Conditions (DWC) and Predicted Destructive (PD). The y-axis consequence value range is different for each partition, with an order of magnitude difference between highest and lowest consequence values.

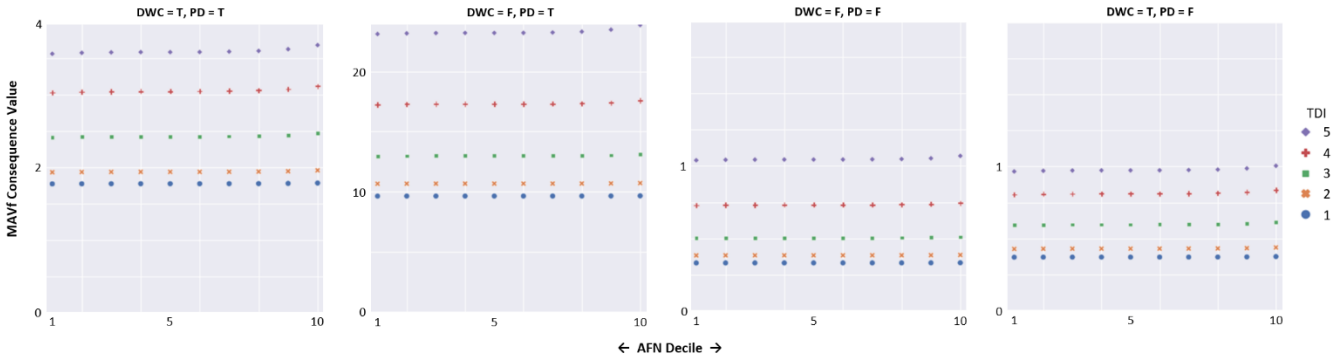


Figure 18 - Consequence Regimes for non-HFRA Asset Locations

Note that, as expected, there is a considerable disparity between high consequence partition values for HFRA versus low values for non-HFRA asset locations for similar Dry Wind Conditions (DWC) and Predicted Destructive (PD) states.

4.3.2 Consequence Regime Table Application

Like the Base Consequence Table, the Adjusted Consequence Partition tables are used to assign adjusted consequence values for grid asset locations. A grid asset location adjusted consequence value is the average adjusted consequence value over every wildfire season day from 2012 through 2022. Each wildfire season is defined as the 183 days from June 1st through November 30th. With 11 fire seasons covering 2012 through 2022, daily consequence values can be assigned to a total of 2,013 days.

For example, take an asset located in HFRA, with a TDI level of 2, and is at the 4th AFN decile. For a day with no Dry Wind Conditions (DWC) but with Predicted Destructive (PD) conditions, the assigned adjusted consequence value is 99, which can be confirmed by checking *Table 15*. However, on a higher risk day with both Dry Wind Conditions (DWC) and Predicted Destructive (PD) conditions, the assigned adjusted consequence value would be 1,063. A consequence value of 99 in a HFRA without Dry Wind Conditions (DWC) but with Predicted Destructive (PD) conditions presents lower fire spread risk than a consequence value of 1,063, which meets both Dry Wind Conditions (DWC) and Predicted Destructive (PD) thresholds. Extending this logic out for a full set of wildfire season days, the average consequence value for an asset location can be calculated as shown in *Table 16*.

Table 16 - Asset Location Adjusted Consequence Value Example

HFRA	Dry Wind Conditions	Predicted Destructive	TDI Level	AFN Decile	Adjusted MAVf	Fire Season Days	MAVf Sum
True	True	True	2	4	1063	50	53,150
True	True	False	2	4	1.94	150	291
True	False	True	2	4	99	550	54,450
True	False	False	2	4	3.35	1,263	4,231
Total						2,013	113,122
Average							**56.2**

Note: Some variables in the source document are defined conceptually or by threshold but do not state a physical unit explicitly (for example, Flame Length, Rate of Spread, and Live Fuel Moisture in the regression summaries). In those cases, this summary labels the unit as not stated rather than inferring one.

Referring back to the asset location base consequence example value provided in *Table 8* of *Section 3.5*, the Egress and Suppression adjustments for TDI level and AFN decile have modified the average asset location consequence from a base value of 63.4 to an adjusted value of 56.2. This is a contributing factor to the flattening of the overall risk curve for WDRM v4.

4.4 Adjusted Consequence Impacts

As described previously, adjusted consequence values are determined as an extension of the base consequence partitions. Therefore, an examination of the adjusted and base consequence values was performed to understand and validate the consequence adjustment for wildfire suppression and public egress.

Figure 19 provides a view into where the adjusted consequence shifted values relative to the base consequence in the western Sierra Mountains. Most notable are the easily distinguished yellow circuit lines indicating a significant relative consequence increase for the more remote and rugged valleys. The increase largely reflects the wildfire suppression impact and reflects the higher TDI levels assigned to these areas. Conversely, foothill areas, especially those with significant populations, generally have lower relative consequence due to proximity to firefighting resources and better access to for initial ignition response.

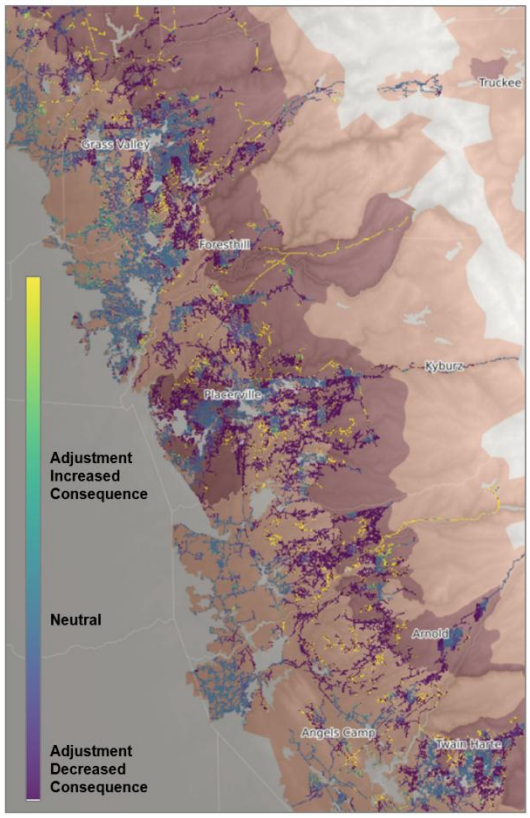


Figure 19 - Relative Adjusted Consequence Differential

The WFC Model directly supports the WDRM, therefore, consequence model changes are typically analyzed using aggregations of consequence pixel values to System Hardening's mitigation work planning unit, Circuit Segments (CS). *Figure 20* is a plot of adjusted versus base consequence rankings (where the highest rank is 1) for the top 2,500 circuit segments. On this plot, the blue diagonal line represents where the CS consequence ranks are the same for both the adjusted and base values. Suppression and egress adjustments can drive consequence up or down. Any point above the blue diagonal represents a CS where the adjusted consequence rank is lower (e.g., rank equals 1 represents the highest fire spread risk) than the base consequence rank, while any point below the diagonal represents a CS where the adjusted consequence rank is higher (e.g., rank equals 99, represents a lower fire spread risk compared to ranks 1-98) than the base consequence rank. Note that the CS point color represents the length of the CS with longer CS represented by darker points.

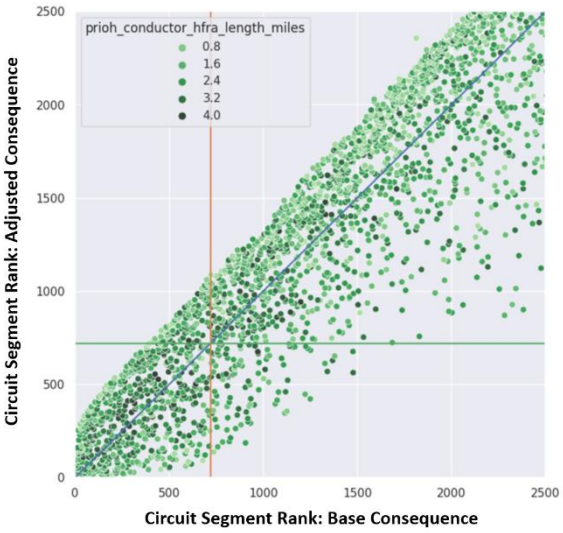


Figure 20 - Adjustment Impact on Circuit Segment Consequence

Keep in mind that a consequence rank change could be the result of two different reasons. First, the change could be due to a significant delta between the adjusted and base consequence value. Second, while the adjusted and base consequence values may be almost the same, other closely ranked circuit segments may have seen very significant changes that shifted the relative rankings.

Another consequence validation analysis was to look at how the adjusted and base consequence model values impact the System Hardening risk buydown curve. The risk buydown curve provides an estimate of how many miles of primary overhead conductor must be undergrounded or harden to mitigate wildfire risk for the electric distribution grid.

Figure 21 contrasts the buydown curves for adjusted and base consequence. The introduction of the wildfire suppression and public egress flattened the risk buydown curve when compared with base consequence. The significance of the flattened curve is that it will take more miles of mitigated risk to achieve reduction targets. The base consequence curve estimates that it will take about 7,500 miles of work to mitigate 60% of wildfire risk, whereas the adjusted consequence curve estimates that it will require 10,000 miles of work to mitigate the same amount of risk. This was not the original expectation for adding the wildfire suppression and public egress impacts, resulting in additional efforts to validate the results and confirm the model development.

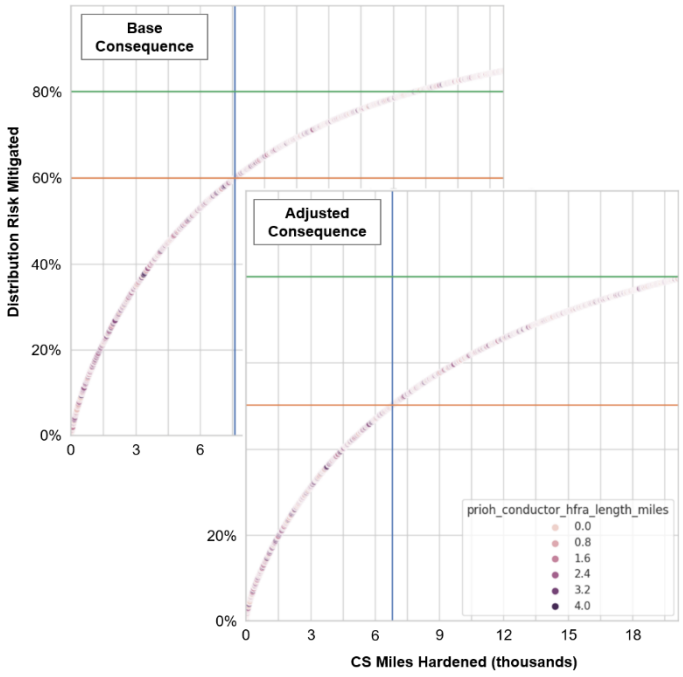


Figure 21 - System Hardening Risk Buydown

5 Future Plans

PG&E has released new versions of the WDRM, and therefore the WFC, on an annual cycle. In the future, WDRM releases will be aligned with the WMP filing schedule rather than annually. Future WFC Model versions will aim to improve on existing features and capabilities while addressing unquantified risk, including:

- Further improve the capture, detail, maintenance, and curation of data sets including supplementing VIIRS historical wildfire satellite data with additional sources
- Continue to refine egress and suppression impacts and new features for vulnerable communities and Wild Urban Interface (WUI) fire consequence
- Integrate modified Technosylva historic wildfire spread data to account for Urban Conflagration
- Account for temporal alignment between probability of ignition and consequence
- Quantify uncertainty in risk around consequence values
- Explore ways to incorporate and quantify the impact of climate change on consequence

Figure 22 presents an overview of the 3-year Wildfire Risk Products Plan, with planned improvements for the WFC highlighted in blue.

Products	2026 WMP	Future WMP

Event Probability Models	• Data Quality Improvement
	• Model Refresh / Calibration
	• Asset Models – Distribution
	  ◦ Switches
	  ◦ Fuses
	  ◦ Capacitor Banks
	  ◦ Voltage Regulators
	• Asset Health – Tags
	• Work Plan Model Causality
	• Animal/Third Party – Distribution
	• Vegetation
	  ◦ Tree Mortality
	  ◦ Time Series Update
	• Insulator Contamination Update
		• Data Quality Improvements
		• Model Refresh / Calibration
		• Full Year Models
		• Asset Model – Distribution
		  ◦ Secondary Conductor
		• Underground Assets
		• Lightning
		• Seismic – Distribution
		• Third Party – Transmission

Risk Models	• WDRM v4 • WTRM v2 • Public Safety Risk Model v2 • Reliability Risk Model v1 • Integrated Grid Planning	• WDRM Update • WTRM Update • Risk Mitigation Automation • Risk Reduction Reporting
Consequence Models	• Wildfire Consequence v4 • Wildfire Egress Impact • Wildfire Suppression Impact	• Wildfire Consequence Update • Conflagration • Vulnerable Communities

Figure 22 - Wildfire Risk Products Plan

6 Appendix: Special Topics

6.1 National Weather Service Red Flag Warning Criteria

Red Flag Warnings (RFW) are issued for a Fire Weather Zones, as shown in *Figure 23*, by the National Weather Service (NWS) when there are weather conditions that would intensify fires.

As noted in Section *3.3.2* on the Dry Wind Conditions covariate, the criteria to declare a Red Flag Warning varies by Fire Weather Zone.

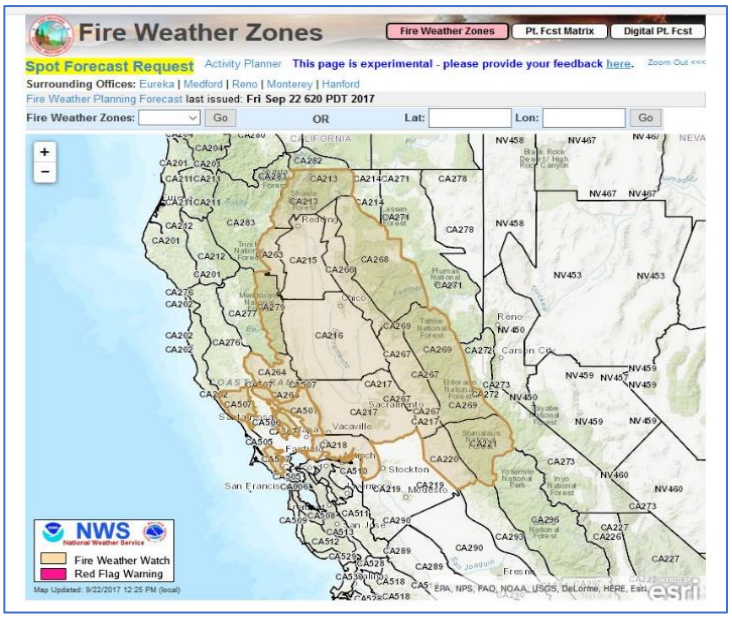


Figure 23 - NWS Fire Weather Zones

Table 17 and *Table 18* provide a summary of the different limit criteria in effect for the NWS Fire Weather Zones.

Table 17 - NWS Fire Weather Zone RFW Limit Criteria

Zones	Description	Criteria
226-228, 230, 232, 260-262	Southern California desert area excluding the Colorado River Valley	Relative humidity <= 15% and wind gusts >= 35 mph for 3+ hours
229,231	Colorado River Valley	Relative humidity <= 15% and sustained winds (@20 ft) >= 20 mph or frequent gusts >= 35 mph for 3+ hours
298, 299, 259	Antelope Valley and SE Kern County deserts	Relative humidity <= 15% and sustained winds (@20 ft) >= 25 mph for 8+ hours
234-258, 288-297	Southern California from mountains westward	EITHER Relative humidity <= 15% and sustained winds >= 25 mph or frequent gusts >= 35 mph for 6+ hours OR Relative humidity <= 10% for 10+ hours
214, 270-273, 278, 284, 285	Northern California East of Cascade/Sierra Crest and Western Great Basin including the Modoc Plateau	TAHOE MANAGEMENT BASIN Wind gusts >= 30 mph And relative humidity <= 20% For 3+ hours REMAINDER Wind gusts >= 30 mph And relative humidity <= 15% For 3+ hours
201-213, 215-221, 263-269, 274-277, 280-282	Northern California West of the Cascade/Sierra Crest	Reference *Table 18 – NorCal Fire Weather Zone RFW Limit Criteria Matrix*

Table 18 – NorCal Fire Weather Zone RFW Limit Criteria Matrix

Criteria	Sustained Wind Speeds			
Relative Humidity	6-11 mph	12-20 mph	21-29 mph	> 30 mph
Daytime Minimum : 29-42% Nighttime Maximum : 60-80%				RFW
Daytime Minimum : 19-28% Nighttime Maximum : 46-60%			RFW	RFW
Daytime Minimum : 9-18% Nighttime Maximum : 31-45%		RFW	RFW	RFW
Daytime Minimum : < 9% Nighttime Maximum : < 31%	RFW	RFW	RFW	RFW

6.2 Wildfire Consequence Training Data

Table 19 provides a small sample of wildfire data use for training the consequence models. It combines information from the VIIRS satellite detections as well as CALFIRE Red Book reports. Also included are the latitude/longitude coordinates given to Technosylva for creating wildfire simulations at the actual fire locations.

Table 19 - Wildfire Consequence Training Data Sample

VIIRS					Technosylva		CALFIRE					
Fire ID	Start Time	First Detection Latitude	First Detection Longitude	Final Detection Area	Simulation Latitude	Simulation Longitude	Name	Acreage	Structures Destroyed	Structures Damaged	Fatalities	MAVf
2017_1106	2017-10-09 03:15:00-07:00	38.3737	-122.25684	49849	38.373799	-122.257	('ATLAS (SOUTHERN LNU COMPLEX)',)	51624	783	120	6	1931
2017_1107	2017-10-09 03:15:00-07:00	39.31841	-123.21579	38557	39.323005	-123.132	('REDWOOD VALLEY\n(MENDOCINO LAKE COMPLEX)',)	36523	543	41	9	1624
2017_1128	2017-10-09 03:15:00-07:00	38.33153	-122.46737	60202	38.428266	-122.549	('NUNS (CENTRAL LNU COMPLEX)',)	44573	1355	172	3	5261
2017_1136	2017-10-09 03:15:00-07:00	38.53556	-122.68947	39811	38.600649	-122.62	('TUBBS (CENTRAL LNU COMPLEX)',)	36807	5636	317	22	40243
2018_1369	2018-11-08 11:50:00-08:00	39.77267	-121.55362	113229	39.814389	-121.434	('CAMP',)	153336	18804	754	85	151388
2020_1480	2020-08-17 02:12:00-07:00	39.69898	-122.73410	1027832	39.698192	-122.734	('AUGUST COMPLEX',)	889467	34	4	1	2666
2021_1331	2021-07-14 02:06:00-07:00	39.87496	-121.38244	945313	39.875	-121.382	('DIXIE',)	963309	1311	94	0	13106

6.3 Dixie Fire Adjusted Consequence Example

The following examples were developed for 2021 Dixie Fire to illustrate how base and adjusted consequence are calculated for a historical fire. The data presented in this section came from development version of the model and may not match the final WFC v4. This example highlights the difficulty of predicting future outcomes of large and long-lived fires: the Dixie Fire's evolution was determined by conditions far from the point of origin, dynamic allocation of firefighting resources, and a specific sequence of weather conditions that could not be known at the time or location of ignition. Dixie destroyed fewer threatened homes and produced no civilian casualties. As a result, the actual destruction was lower than would be inferred from other fires under similar conditions. The WFC v4 predicted more fatalities for Dixie's structure count than were actually realized. Combined with the MAVf non-linear response, predicted consequences for a hypothetical Dixie-like fire at various TDI and AFN levels were indeed greater than observed.

6.3.1 Dixie Fire Attributes

Table 20 is a summary of conditions and outcomes for the Dixie Fire based on ignition location to gain insight into the impacts of suppression and egress adjustments.

Table 20 - Dixie Fire Summary

Statistic	Value
HFRA	True
Dry Wind Condition	False
Predicted Destructive	True
TDI Level	2
AFN Decile	4
Acres Burned	963,309
Buildings Burned	1311
Fatalities	1
MAVf	13106

6.3.2 Wildfire Suppression Model TDI Level Impact

The Wildfire Suppression Model predicts the number of structures destroyed for the five TDI levels. Referring back to *Table 20*, the Dixie Fire started in an area with a TDI level of 2 and destroyed 1,311 structures. Using the Suppression Model, it can be estimated how TDI level would have impacted the number of structures destroyed by the fire, as shown in *Table 21*.

Table 21 - Dixie Fire Suppression Predictions

TDI Level	Buildings Destroyed
Actual	1311
1	531
2	1311
3	3021
4	6082
5	9985

6.3.3 Public Egress Predictions for AFN Deciles

The 2021 Dixie Fire is shown for illustration purposes using an earlier version of fire data from the development version of the model. The Public Egress Model predicts the number of fatalities for the ten AFN deciles. Referring back to *Table 20*, the Dixie Fire started in an area with a TDI level of 2, an AFN decile level of 4, and resulted in one fatality. Using the Public Egress Model, it can be estimated how AFN decile level would have impacted the number of fatalities as shown in *Table 22*.

Table 22 - Dixie Fire Egress Predictions

AFN Decile	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
Fatalities	2.3	2.8	3.1	3.2	3.2	3.2	3.4	3.8	4.6	6.6

6.3.4 Wildfire Suppression and Public Egress Adjustment Impact on Hypothetical Outcomes

The Dixie Fire started in HFRA, without Dry Wind Conditions (DWC), on a Predicted Destructive (PD) day (T/F/T). Using the Suppression and Egress Impact Models, the number of structures destroyed for a given TDI level and the expected fatalities based on AFN Decile can be predicted, resulting in the matrix of hypothetical outcomes shown in *Table 23*.

Table 23 - Dixie Fire Predicted Suppression & Egress Outcomes

TDI Level	Structures Destroyed	Expected Fatalities by AFN Decile									
		1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
1	531	0.9	1.1	1.2	1.3	1.3	1.3	1.4	1.5	1.9	2.7
2	1311	2.3	2.8	3.1	3.2	3.2	3.2	3.4	3.8	4.6	6.6
3	3021	5.4	6.5	7.0	7.3	7.3	7.4	7.9	8.7	10.6	15.2
4	6082	10.8	13.1	14.2	14.7	14.7	14.9	15.9	17.5	21.4	30.7
5	9985	17.7	21.5	23.3	24.1	24.1	24.5	26.1	28.7	35.1	50.3

Predictions are converted into consequence values using MAVf, producing the *Table 24* matrix.

Table 24 - Dixie Fire Predicted Suppression & Egress MAVf Consequence

TDI Level	AFN Decile									
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
1	7145	7153	7156	7158	7158	7159	7162	7167	7181	7212
2	13180	13199	13208	13212	13212	13214	13222	13235	13268	13344
3	26419	26463	26484	26493	26493	26497	26516	26618	26898	27560
4	50410	50741	50894	50963	50965	50999	51140	51369	51933	53265
5	81348	81892	82143	82256	82260	82315	82547	82923	83848	86036

6.4 Wildfire Consequence Fire Spread Risk Example

Table 25 below provides an illustrative example of Wildfire Consequence scores based on fire spread risk levels Low, Medium, and High; components of Predicted Destructive (PD) including the Fire Potential Index (FPI-R) score, Flame Length (FL), and Rate of Spread (RoS); components of Dry Wind Conditions including Wind Speed (WS), Dry Fuel Moisture (DFM), and Relative Humidity (RH); High Fire Risk Area (HFRA); Access and Functional Needs (AFN) index adjustments; and Terrain Difficulty Index (TDI) adjustments.

Table 25 - Wildfire Consequence Fire Spread Risk Example

WILFIRE CONSEQUENCE										
	PD			DWC			HFRA	Access and Functional Needs (Egress Adjustment)	Terrain Difficulty Index (Suppression adjustment)	Wildfire Consequence (unitless relative measure)
	FPI-R	FL	ROS	Wind Speed	10-hr Dry Fuel Moisture	Relative Humidity				
Low Fire Spread risk	R1	2 ft	5 Ch/hr	5 mph	15%	60%	N	20-30% of the PG&E customer base are AFN customers	1	25
Medium Fire Spread risk	R2	3 ft	10 Ch/hr	12 mph	10%	40%	Y	40-45% of the PG&E customer base are AFN customers	3	400
High Fire Spread risk	R5	5 ft	12 Ch/hr	20 mph	5%	20%	Y	60-70% of the PG&E customer base are AFN customers	5	800

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP026

WILDFIRE DISTRIBUTION RISK MODEL VERSION 4 (WDRM V4)

DOCUMENTATION

Wildfire Distribution Risk Model Version 4 (WDRM v4) Documentation



Prepared By: PG&E Risk and Data Analytics Team

-1019-

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Revision History

Rev	Date	Comment
0	08/27/2024	Initial Release
1	03/11/2025	Added new cover page

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Executive Summary

The Wildfire Distribution Risk Model (WDRM) is used by PG&E to quantify and categorize wildfire risk from overhead distribution network assets. The model predicts the relative risk of a wildfire occurring during an annual fire season as the result of an ignition related to distribution grid assets. The relative wildfire risk results produced by the WDRM informs the PG&E Wildfire Mitigation Plan (WMP) as well as specific mitigation program work plans to help realize the company stand, *"Catastrophic wildfires will stop"*.

This document describes WDRM version 4 (v4) development by the Risk and Data Analytics (RaDA) team and highlights improvements implemented over its predecessor, WDRM v3.

WDRM v4 Risk Prediction

Wildfire risk is the combination of two modeled values, the probability, or likelihood, of an ignition event and the likely consequence of an ignition event at a geographical location. Each of these models apply machine learning techniques to historical events, asset attributes, and meteorological information to predict what will occur for a future fire season.

The probability of ignition model represents the likelihood of an ignition event occurring during a single fire season. The probability of ignition is predicted in two steps. First, the probability of outage (or failure) for a fire season is estimated for a variety of asset types and failure modes. These are often referred to as subset models. Second, the probability of an ignition given an outage is determined for each asset type and failure model combination. The final probability of ignition result is the multiplication of the probability of outage and probability of ignition given outage model results.

The consequence model projects the severity of fires that are ignited at geographic locations associated with distribution grid assets. The model is trained using historical fire records, fire simulation data from Technosylva, Fire Potential Index (FPI) information from PG&E meteorology, terrain topology, and other attribute data.

Often, wildfire mitigation programs are concerned with addressing the wildfire risk from multiple distribution assets and failure modes, which often require different remedial actions. The WDRM assembles the risk predicted for individual assets and failure modes into composite risk models to support more comprehensive mitigation planning such as system hardening and vegetation management.

WDRM v4 Improvements

WDRM v4 features several significant improvements to the modeling of distribution wildfire risk:

- Improved quality of training and covariate datasets, resulting in a direct impact on model quality.
- Transition of several WDRM v3 equipment asset event probability models from spatial, pixel-based to asset-based.
- Introduction of four new equipment asset-based event probability models.
- Vegetation event probability models were improved with data for tree health and wind direction.
- Wildfire Consequence v4 received several significant upgrades, including 24-hour fire simulations, Technosylva's Terrain Difficult Index, Dry Wind Conditions, and corrections for public Egress and fire Suppression impacts. Wildfire Consequence v4 performance prediction for historical fires improved significantly over Wildfire Consequence v3.4.
- Circuit segment risk rankings are based on risk per primary overhead conductor mile for v4, replacing the mean risk based rankings issued for v3. This change made in response to System Hardening and Undergrounding mitigation team requests.

WDRM v4 Wildfire Risk Insights

WDRM v4 benefited from significant improvements to both the Event Probability Models for outages and ignitions and the Wildfire Consequence Model. As a result of the many contributing model improvements, WDRM v4 produces risk values that show a general flattening of the risk profile for the service territory. The most critical insight is that the WDRM v4 System Hardening composite risk buydown curve requires considerably more primary overhead conductor miles to account for 80% of the HFTD risk, increasing from 10,000 miles for WDRM v3 to 14,600 miles for WDRM v4.

While there are many contributing factors for the flattened risk buydown curve, a principal cause has been changes to the wildfire consequence model driven by improved historical fire datasets, 24-hour fire simulations, Technosylva's Terrain Difficulty Index, the introduction of public Egress and fire Suppression impacts, and the implementation of a revised consequence Multi-Attribute Value function (MAVf). While the new Wildfire Consequence v4 features have improved performance when compared with v3.4, it has also redistributed consequence, and therefore risk, across the service territory, resulting in a much flatter risk buydown curve.

Future Development Plans

The RaDA team has a 3-year risk model product plan targeted at the delivery of the next WDRM version release. While RaDA has historically produced the WDRM on an annual cycle, in the future WDRM version releases will be aligned with the WMP filing schedule. Therefore, this version of the WDRM is planned in support of the 2026 WMP.

WDRM v4 delivered several features planned for 2024 and 2025 development and additional features will be delivered during the remainder of 2024 and 2025. Several new features are planned for delivery in support of the 2026 WMP filing. Substantial efforts are expected to further improve the capture, detail, maintenance, and curation of data sets used for risk models. Future risk modeling will progress beyond informing mitigation work plan development and will provide risk and risk reduction values in support of data driven portfolio level decisions for the Integrated Grid Planning process.

1 Introduction

The Wildfire Distribution Risk Model (WDRM) is used by PG&E to quantify and categorize wildfire risk from overhead distribution network assets. The model predicts the relative risk of a wildfire occurring during an annual fire season as the result of an ignition initiated at the location of a distribution grid asset. The relative wildfire risk results produced by the WDRM supports the PG&E Wildfire Mitigation Plan (WMP) as well as specific mitigation program work plans to help realize the objective, *"Catastrophic wildfires will stop"*.

This document describes WDRM version 4 (v4) development by the Risk and Data Analytics (RaDA) team and highlights improvements implemented over its predecessor, WDRM v3.

1.1 Wildfire Risk Management Ecosystem

PG&E uses several planning and operational risk models for wildfire risk management within its wildfire risk management ecosystem:

- Planning models
  - Enterprise Risk Model
  - Wildfire Transmission Risk Model (WTRM)
  - Wildfire Distribution Risk Model (WDRM)
- Operational models for Public Safety Power Shut-off (PSPS) and Enhanced Power System Settings (EPSS)
  - Distribution OPW and IPW models
  - Transmission Operability Assessment

The outputs of the planning and operational models, along with input from Public Safety Specialists (PSS) and other Subject Matter Experts (SME), are used to form PG&E's Wildfire Mitigation Plan (WMP).



Figure 1 - PG&E Risk Management Ecosystem

The WDRM is the primary risk model that PG&E uses to provide insights to prioritize mitigation work to reduce wildfires initiated by the distribution grid. The WDRM produces predictions of wildfire risk and estimates of risk

reduction for potential mitigation activities. Mitigation program work planners use the WDRM results, along with subject matter expertise and additional information potentially not included in the risk models, as part of their mitigation program work planning tools to develop work plans that systematically reduce wildfire risk while considering constraints such as budget allocation, human and equipment resource capacity, and regulatory commitments.

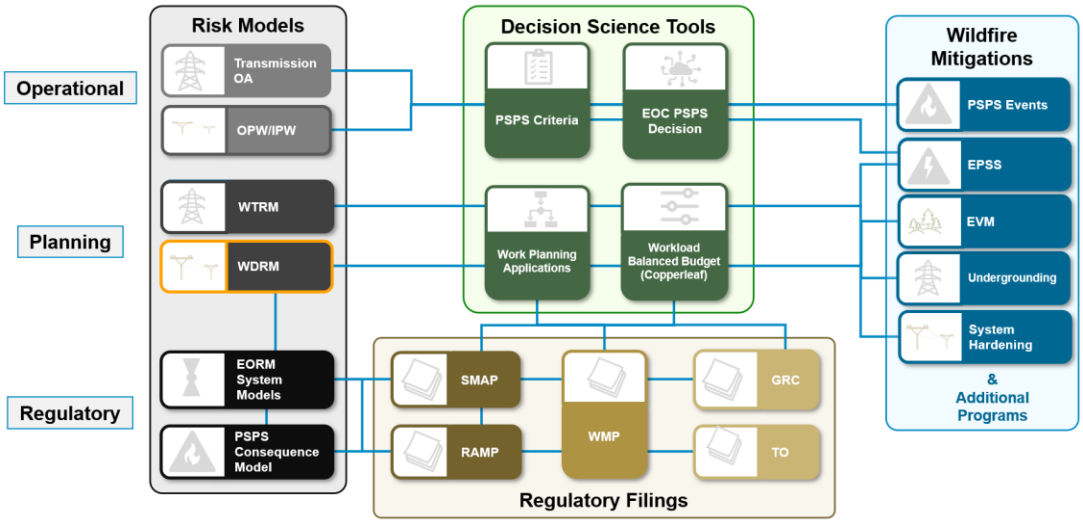


Figure 2 - WDRM Role in Risk Management

Wildfire risk modeling, mitigation work planning, and mitigation work execution occur on overlapping time cycles. *Figure 2* illustrates the expected coordination of the development and execution workflows.

1.2 Wildfire Distribution Risk Model (WDRM)

The WDRM was developed by the PG&E Risk and Data Analytics (RaDA) team to quantify the risk related to PG&E's overhead distribution equipment assets, which consist of overhead transformers, poles and other parts of support structures, conductor lines, and line-related equipment such as interrupters.

The WDRM provides predictions of the where, why, and how much wildfire risk occurs during a wildfire season of June 1st through November 30th.

It is important to understand that since the WDRM is built as a support model for wildfire mitigation planning, the model therefore predicts risk as an aggregate value for an annual fire season. The model does not predict specific risk for shorter time intervals within a fire season such as on a daily or monthly basis. The WDRM model results are relevant

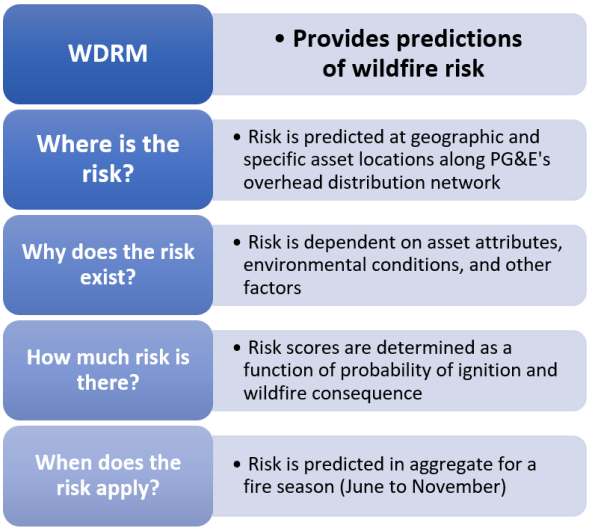


Figure 3 - WDRM Objectives

only for annual and multi-year planning programs. There are other models in the PG&E wildfire risk management ecosystem, such as the PSPS model, which are intended to inform operational risk mitigation using near-term data and forecasts.

Through modeled relationships between wildfire risk and an array of environmental and asset attributes, the WDRM helps mitigation program work planners understand why risk exists at a location or asset, and, therefore, which action(s) may be most effective for reducing the wildfire risk.

The WDRM estimates risk at geographic locations along the distribution network and for individual assets. Wildfire risk for the distribution network is determined from the results of two component models: the Probability of Ignition Model and the Wildfire Consequence Model.

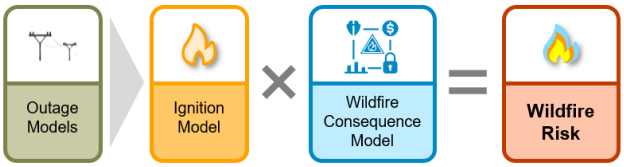


Figure 4 - Wildfire Risk Calculation

The Probability of Ignition, or p(i), Model uses two steps to predict the likelihood of an ignition for distribution grid assets and locations. First, a series of Probability of Outage, or p(o), models predict the likelihood of equipment asset outages that could be caused by various equipment and contact from object failure modes. Second, depending on an asset failure type and its failure mode, the likelihood that a failure will result in an ignition event is determined. The Probability of Ignition Model and the contributing Outage models are described in more detail in the *Distribution Network Event Probability Models v4 Documentation*.

The Wildfire Consequence (WFC) Model predicts the impact of an ignition event in terms of the potential hazard posed to life, property, and land. Consequence values are determined for the service territory based on simulated fire outcomes that use detailed fuels, weather, and topography data. Consequence values are generally higher at locations that are typically dry, windy, and have an abundance of burnable fuel. The WFC is described in more detail in the *Wildfire Fire Consequence Model v4 Documentation*.

The predictions from the Probability of Ignition Model and the Wildfire Consequence Model are combined to determine the Wildfire Risk for a distribution grid asset or location.

1.3 Mitigation Program Planning

The WDRM primary purpose is to inform various PG&E wildfire risk mitigation plans, also known as Work Plans. Work plans are produced, then executed, by various programs, including:

- *System Hardening* – replaces existing assets with more resilient equipment such as covered conductors or stronger poles or relocates assets to lower-risk locations.
- *Undergrounding* – moves existing assets underground to eliminate wildfire risk.
- *Vegetation Management* – performs expanded vegetation trimming and removal in selected locations.
- *Pole Replacement* – replaces old and worn wood distribution poles.
- *Transformer Replacement* – replaces old and overloaded distribution transformers.

The WDRM output is a relational dataset that can be viewed on spatial map with layered representation of risk, consequence, and probability values – each characterizing risk from different causes or assets. These layers of risk can be examined and compared individually, or they can be composited together to understand the full risk from all applicable distribution grid assets.

1.4 System Inspections and Electric Corrective Tags Programs

The WDRM, in addition to PG&E's long-term wildfire risk mitigation work plans, also inform the prioritization of annual work plans for both the System Inspections and Electric Corrective (EC) Tags Programs.

- *System Inspections* – develops a plan which emphasizing risk to determine assets to be inspected in the upcoming year and whether those assets will receive a ground or aerial inspection.
- *EC Tags Program* –addresses the Wildfire Mitigation Plan (WMP) annual commitment to meet annual risk reduction targets associated with the existing number of HFTD/HFRA tags.

1.5 Documentation Suite

This document is part of the documentation suite for the Wildfire Distribution Risk Model (WDRM) v4:

- WDRM v4 Documentation (this document)
- Wildfire Consequence Model v4 Documentation
- Distribution Network Event Probability Models v4 Documentation
- RaDA Algorithms and Methodologies

The intent of this document is to present the development, performance, and use of the Wildfire Distribution Risk Model. This document describes the calculation of distribution asset wildfire risk, aggregation of risk to System Hardening circuit segments, and the creation of risk composites in support of wildfire mitigation program planning.

Note that the calculation of wildfire risk is dependent on prediction results from the Distribution Event Probability and Wildfire Consequence models. These models are only generally described in this document. Detailed documentation for the Distribution Event Probability and Wildfire Consequence models can be found following the links provided above.

This document seeks to provide the lay reader with a broad understanding of WDRM v4. It is not intended to provide comprehensive detailed mathematical or scientific descriptions of all methods used to produce the risk model.

2 WDRM v4 Highlights and Evolution

The WDRM is continuously improved and expanded to incorporate refreshed data and new data sources, explore new event probability models that provide new causal path insights, and absorb advancements in wildfire simulation. The continuous improvement effort is reflected in the evolution of the WDRM version releases. While each new model has advanced the science of wildfire risk models they are each statistical approaches to characterizing and quantifying wildfire risk in support of PG&E's stand that catastrophic wildfire will stop. As statistical predictions the predictive power of the models or their subparts can have similar effectiveness while subsequent models can provide improvements in singling out specific risk drivers. For this reason, workplans developed with one version of the risk models do not become outdated or incorrect with the release of a new model.

2.1 WDRM v4 Highlights

WDRM v4 features several significant improvements to the modeling of wildfire risk.

- Concentrated effort to improve the quality of training and covariate datasets, which had a direct impact on the quality of model predictions.
- Migration of several equipment asset event probability models from spatial, pixel-based to asset-based, including:
  - Primary Conductors
  - Support Structures
  - Transformers
  - Voltage Regulators
- Development of new equipment asset-based event probability models, including:
  - Capacitor Banks
  - Dynamic Protective Devices
  - Fuses
  - Switches
- Vegetation event probability models were improved with data for:
  - Tree Canopy Density
  - Tree Health
  - Wind Direction
- Wildfire Consequence received several significant upgrades:
  - Technosylva's wildfire simulations were increased from 8-hour to 24-hour duration.
  - Technosylva's Terrain Difficulty Index (TDI) was incorporated into the Consequence model.
  - Dry Wind conditions were added to the Consequence model.
  - Egress and Suppression impacts are used to modify Consequence predictions.
- In response to System Hardening and Undergrounding mitigation work planning team requests, circuit segment aggregated risk rankings are produced based on wildfire risk per primary overhead conductor mile.

2.2 WDRM Version Evolution

Mitigating wildfire risk posed by utility assets is a rapidly evolving area of practice where improvements are achieved through the adoption of new data and methods. As such, PG&E's WDRM has evolved – and improved – over time.

Figure 5 provides an overview of the evolution and improvement of the Event Probability Models that contribute probability of failures and ignitions to the WDRM.

Distribution Event Probability Model Evolution				
Feature	**v1 (2019)**	**v2 (2021)**	**v3 (2022)**	**v4 (2023)**
Service Scope	HFTD Tier 2/3	HFTD Tier 2/3	Service Territory	Service Territory
GIS Vintage	2018	2018v/2020c	January 2022	January 2023
Ignitions Event Domain	2015 – 2018	2015 – 2019	2015 – 2020	2015 – 2022
Failures Event Domain	n/a	n/a	2015 – 2021	2015 – 2022
Circuit Segment Aggregation	x	x	Mean Pixel	Risk per Line Mile
Model Compositing	x	x	✓	✓
Asset Models				
Primary Conductor	Pixel-based	Pixel-based	Pixel-based	Asset-based
Secondary Conductor	x	x	Pixel-based	Pixel-based
Support Structure	x	x	Pixel-based	Asset-based
Transformer	x	x	Pixel-based	Asset-based
Voltage Control	x	x	Pixel-based	Asset-based
Capacitor Bank	x	x	x	Asset-based
Switch	x	x	x	Asset-based
DPD	x	x	x	Asset-based
Fuse	x	x	x	Asset-based
Vegetation Models	Pixel-based	Pixel-based	Pixel-based	Pixel-based
LiDAR Data	x	x	✓	✓
with Tree Canopy Density	x	x	x	✓
Tree Health	x	x	x	✓
Wind Direction	x	x	x	✓
Animal Models	x	x	Pixel-based	Pixel-based
Third Party Models	x	x	Pixel-based	Pixel-based

Figure 5 - Event Probability Model Evolution

Figure 6 provides an overview of the evolution and improvement of the Wildfire Consequence Model that contributes potential ignition consequences to the WDRM.

Wildfire Consequence Model Evolution				
Feature	**v1 (2019)**	**v2 (2021)**	**v3.4 (2022)**	**v4 (2023)**
Service Scope	HFTD Tier 2/3	HFTD Tier 2/3	Service Territory	Service Territory
GIS Vintage	July 2016	April 2019	January 2022	January 2023
Fuels	2012 LANDFIRE	2020 Fuels Snapshot	2030 Forecast Growth	2030 Forecast Growth
Fire Simulation	6 hours	8 hours	8 hours	24 hours
Historical Fire Locations	No	No	Nearest Asset	At Ignition Location
Model Formulation				
REAX, Vol. & Struct.	✓	x	x	x
Fire Burn Index (FBI)	x	✓	x	x
Acres Burned	x	✓	x	x
Fire Potential Index (FPI)	x	x	✓	✓
Flame Length	x	x	✓	✓
Rate of Spread	x	x	✓	✓
Dry Wind Conditions	x	x	x	✓
Egress Impact	x	x	x	✓
Suppression Impact	x	x	x	✓

Figure 6 - Wildfire Consequence Model Evolution

2.3 Legacy WDRM Models

Legacy WDRM version release data remain available for historical and audit purposes. WDRM v2 and v3 results are directly available to self-service users through the WDRM Landing Page in Foundry.

2.3.1 WDRM v1

WDRM v1 was generated for the 2017 initial RAMP filing under the S-MAP agreement. The first-generation RAMP model for Enterprise Risk Management used probabilistic modeling. It was built in an Excel format (with an add-in feature called @Risk) and relied on Monte Carlo simulation to produce a baseline and mitigated Multi Attribute Risk Score (MARS) and Risk Spend Efficiency (RSE). The first version of the model used in the 2019 WMP predicted wildfire risk on a per-circuit basis and circuit segment basis, for High Fire Threat District (HFTD) only.

In 2019, PG&E started to prioritize circuits and circuit segments for wildfire risk mitigation using a probability of ignition from this v1 model, and wildfire consequence predictions from fire modeling software vendor REAX. Mitigation work planned with the benefit of the v1 WDRM was performed during 2019, 2020, and 2021.

2.3.2 WDRM v2

WDRM v2 was generated for the 2020-2021 second RAMP filing in accordance with the S-MAP Settlement Agreement (Dec 2018). WDRM v2 took a meaningful step forward by using more advanced modeling. WDRM v2 featured more specific event models for predicting ignitions and used PG&E's version of the CPUC's multi-attribute value function (MAVf) to estimate wildfire consequences as required by the S-MAP Settlement Agreement. During the second year of the filing, the v2 model was improved to use more advanced algorithms and machine learning.

PG&E also improved the v2 modeling to be more granular spatially and by risk driver. The spatial resolution of the model was improved from circuits for v1 to 100m x 100m geographic areas, or pixels, within HFTD for v2. In addition, vegetation-caused ignitions were modeled separately from other ignitions along conductor lines to understand the differences between these two risk drivers. This resulted in two related but separate models, vegetation-caused and conductor-involved, which were subsequently used by the EVM and System Hardening wildfire risk mitigation programs, respectively.

WDRM v2 also featured upgraded wildfire consequence mapped into MAVF fire size/severity tranches based upon physics-based fire simulations provided by outside vendor Technosylva.

2.3.3 WDRM v3

WDRM v3 was released in support of the 2023 WMP. The third generation of WDRM development was guided by internal reviews, public safety specialist feedback, technology partner feedback, third-party intervener comments, and an independent third-party model review.

WDRM v3 greatly expanded the scope of the model and included more-advanced machine-learning modeling techniques, incorporated newly available data, and significantly expanded its understanding of potential ignition sources from distribution assets.

WDRM v3 modeled several new causal pathways to ignitions. While WDRM v2 provided ignition event modeling for primary conductors and vegetation, WDRM v3 offered asset event models for secondary conductors, support structures, transformers, and voltage controls. New contact from object event models were added for animal and third-party contacts with distribution assets.

WDRM v3 incorporated Wildfire Consequence v3.4, which included updates to consider 2030 forecasted growth for fuels, Fire Potential Index, simulated flame length, and simulated flame rate-of-spread to predict ignition consequences.

3 WDRM v4 Risk Prediction

3.1 Risk Model Overview

There are two main component models for determining risk in the WDRM, an event probability of ignition and the consequence of ignition at a geographic location. However, both the event probability of ignition and the consequence models are composed of supporting models that contribute causal knowledge to the WDRM. *Figure 7* provides an overview of all model components that contribute to the estimation of wildfire risk.

Probability of ignition, or p(i), sometimes referred to as Likelihood of a Risk Event (LoRE), represents the expected count of ignition events for an annual wildfire season of June 1st through November 30th. The probability of ignition is determined from a suite of distribution event probability models. All but one of the event probability models are probability of outage (or failure) models. These models predict the expected number of outages or failures for a fire season for a specific type of asset found in the distribution network. The outcomes for the outage event models are in turn processed through a single probability of ignition given outage (p(i|o)) model that yields the probability of ignition values for all event models. Full documentation on the probability of ignition model and the associated set probability of outage models is available in a separate document, *Distribution Network Event Probability Models (DEPM) v4 Documentation*.

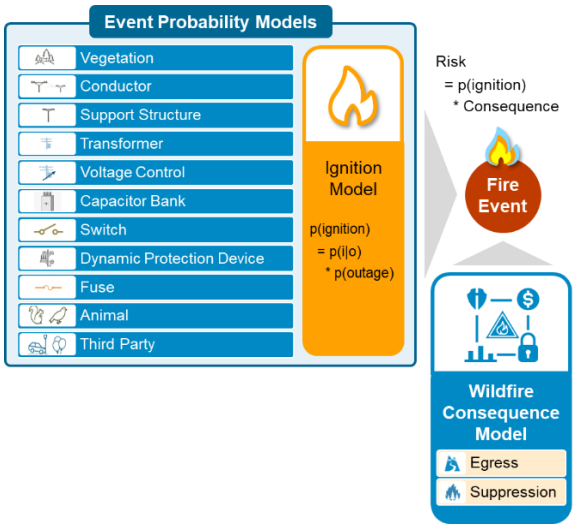


Figure 7 – WDRM Risk Components

Consequence of an ignition event, sometimes referred to as Consequence of a Risk Event (CoRE), provides the expected severity of wildfire outcome for a specific geographical location within the distribution network. Full documentation on the Consequence model is available in a separate document, *Wildfire Fire Consequence Model (WFC) v4 Documentation*.

The combination of probability of ignition and its consequence results in a relative wildfire risk value that can be used to inform wildfire mitigation planning. This document explains how wildfire risk is determined from combining probability of ignition and consequence values for assets, locations, and circuit segments, and mitigation program composites.

3.1.1 Risk Value Calculation

Wildfire Risk for a given asset or asset location is simply the product of an event probability of an ignition and the expected consequence of an ignition event. The event probability of ignition has two modeling components, an event probability of outage and the probability of ignition given outage. *Figure 8* illustrates the wildfire risk calculation form its components.

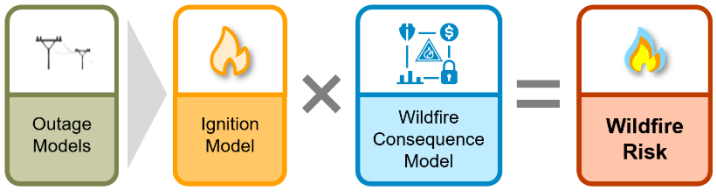


Figure 8 - Wildfire Risk Calculation

In its simplest form, wildfire risk is the product of an event probability of ignition and its potential consequence:

$$Risk = p(i) * Consequence$$

The probability of ignition, however, is itself the product of an event model probability of outage and the estimated probability of ignition given an outage, and the risk calculation can be expanded to:

$$Risk = p(o) * p(i|o) * Consequence$$

Where:

Variable	Description
Risk	Seasonal wildfire risk for an asset or asset location
p(i)	Seasonal probability of ignition for an asset or asset location
p(o)	Seasonal probability of outage (or failure) for an asset or asset location
p(i|o)	Seasonal probability of ignition given probability of outage
Consequence	Expected wildfire consequence for an ignition location

In theory, the WDRM calculates a wildfire risk value for every asset and every location containing an asset for the entire distribution network. Unfortunately, data quality issues and the asynchronous nature of many of the underlying data sources will result in some WDRM assets and locations having insufficient information to generate an event probability of ignition, an ignition consequence value, or both. As a result, the WDRM is always missing some wildfire risk values for a small number of assets and locations.

3.1.2 Key Modeling Constructs

There are several important modeling constructs for delivering the WDRM risk data. WDRM risk is the result of combining probability of ignition predictions from the Event Probability Models with the probable wildfire outcome from the Wildfire Consequence Model. However, the supporting models provide their data at the granularity of either an individual asset or an individual geospatial grid pixel. For the risk data to be useful for mitigation work planning, the risk data must be adapted to match how the work is planned. This is accomplished through two methods of processing: results aggregation and multi-model compositing. Results aggregation organizes and sums multiple pixel and asset risks to the work planning context of circuit segments used by several mitigation programs. Multi-model compositing combines the risk from several different event models to create a total risk value for work plan prioritization.

3.1.2.1 Modeling Components

A persistent goal for each new WDRM version release is to improve its predictive power over its predecessor. One way this has been achieved is to increase causal specificity of the Event Probability and Wildfire Consequence Models.

For the Event Probability Models, WDRM v2 only delivered separate event probability models for System Hardening and Vegetation Management mitigation work planning. For WDRM v3, 17 unique causal event probability models were developed. WDRM v4, via DEPM v4, delivers 23 causal event models.

There are two types of Event Probability model, Equipment Asset Models and Contact From Object Models. Asset Models provide event probability values for specific equipment assets, while Contact From Object Models are geo-spatial, delivering probability values associated with 100m by 100m grid of pixels that overlay the distribution assets.

DEPM v4 delivers fourteen Equipment Asset and nine Contact From Object models for WDRM v4 risk calculations.

The Wildfire Consequence Model v4 that supports WDRM v4 has also grown in capability and now includes two impact adjustments for Egress response and fire Suppression.

3.1.2.2 Results Aggregation

Several use cases for the WDRM results require understanding the total or average risk for a set of assets. This is accomplished through the aggregation of contributing causal risks. The WDRM supports the aggregation of risk to circuit segments, which break up distribution circuits into small sections which are more appropriate for planning by mitigation programs such as System Hardening, Undergrounding, and Vegetation Management. For each circuit segment, the risk for any given event probability model can be summed to determine the aggregated risk contribution. In the case of an Asset model, the risk for each asset assigned to a circuit segment is summed. For a Contact From Object model, the risk value for each pixel touched by the circuit segment is summed. Risk aggregation is explained in more detail in Section *4.1*.

3.1.2.3 Model Compositing

Some mitigation programs need to consider the combined risks from multiple causal Event Probability Models. The WDRM provides this capability through the compositing of risk. WDRM v4 provides several model composites for assets that have multiple causal models and for specific mitigation work plans.

Asset model composites sum the constituent causal models to provide a summed risk. For instance, the Primary Conductor Line Slap, Wire Down, and Other causal model risk are combined to produce a total Primary Conductor risk.

Mitigation program composites sum risks from the suite of causal models that can influence the selection of risk mitigation methods. WDRM v4 provides composite risk values in support of System Hardening, Undergrounding, and Vegetation Management mitigation work planning.

Model compositing is explained in more detail in Section *4.2*.

3.2 Model Development Process

All WDRM models are developed following an iterative process. A high-level view of the development process is shown in *Figure 9*.

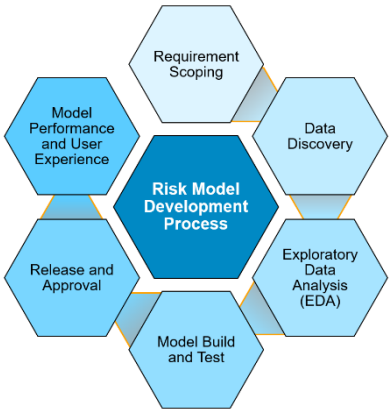


Figure 9 - Model Development Process

Requirement Scoping – Encompasses user feedback, new user requirements, potential performance improvements, and new or desired causal information to set model development goals.

Data Discovery – Researching new data sources, obtaining updates to refresh existing data sources, and cleaning and validating data for potential model use.

Exploratory Data Analysis (EDA) – Data analysis and investigation to determine fitness for modeling.

Model Build and Test – Successive builds of proposed models verified for performance against independent testing data.

Release and Approval – Candidate release models are published to the user community for critique. Viable release candidates are presented through a governance process to gain approval for general release in support of wildfire mitigation work planning.

Model Performance and User Experience – The approved model is monitored for performance against actual events and user feedback is collected to inform the next iteration of model development.

This is a very simplified description of the risk modeling process. At any step in development, knowledge gained can require an iteration back to an earlier process step or even to a reevaluation of model development scope.

3.3 Event Probability Models Contribution

The Event Probability Models support the WDRM by predicting where distribution assets are most likely to experience an abnormal operating event that results in an outage or ignition event and include:

- Probability of Outage Models
  - Equipment Asset Models
  - Contact From Object Models
- Probability of Ignition (given Outage) Model

Equipment Asset Models consider event history and contributing factors to predict failure of specific types of electrical equipment. Each asset model uses a unique set of inputs (covariates) from a pool of asset attributes and environmental conditions. For some assets, unique models (sub-sets), are produced for specific types of failures.

The following Equipment Asset models were produced in support of WDRM v4:

- Capacitor Bank
- Dynamic Protection Device (DPD)
- Fuse
- Primary Conductor
  - Line Slap
  - Wire Down
  - Other
- Secondary Conductor
- Support Structure
  - Electrical Failure
  - Structural Failure
- Switch
- Transformer
  - Leaking
  - Failure
- Voltage Regulator
- Other Equipment

Contact from Object Models consider event history and contributing factors to predict failure caused by contact from foreign objects with electrical assets. Each contact model uses a unique set of inputs (covariates) from a pool of object attributes and environmental conditions. All contact models provide unique models (sub-sets) for specific types of contact failures.

The following Contact from Object models were developed in support of WDRM v4:

- Animal
  - Bird
  - Squirrel
  - Other
- Third Party
  - Balloon
  - Vehicle
  - Other
- Vegetation
  - Branch
  - Trunk
  - Other

The Probability of Ignition is the likelihood that an asset-based ignition will occur during a fire season. Probability of Ignition is predicted by the Probability of Ignition Given Outage Model using the probability of outage predictions from all of the Asset Equipment and Contact From Object Models along with other attributes such as environmental conditions. Fire season probabilities of ignitions are individually predicted for each specific Asset Equipment and Contact From Object Model.

3.4 Wildfire Consequence Model Contribution

The Wildfire Consequence Model supports the WDRM by estimating the likely outcome of an ignition originating at the geographical location of any electrical asset. The consequence model is trained to historical fires while considering Technosylva fire simulations, PG&E Meteorology's FPI index, dry wind conditions, and other fuel and weather conditions. In addition, the consequence estimates are adjusted for population Egress and fire-fighting Suppression impacts.

The consequence model produces estimates outcomes for acres burned, buildings damaged, and probable fatalities. The model outcomes are transformed through a Multi-Attribute Value function (MAVf) provided by Enterprise Risk Management to determine the final consequence value used for calculating wildfire risk.

The Wildfire Consequence Model v4 that supports WDRM v4 risk has also grown in capability when compared with Wildfire Consequence Model v3.4, and now includes two impact adjustments for Egress response and fire Suppression as shown in *Figure 10*.

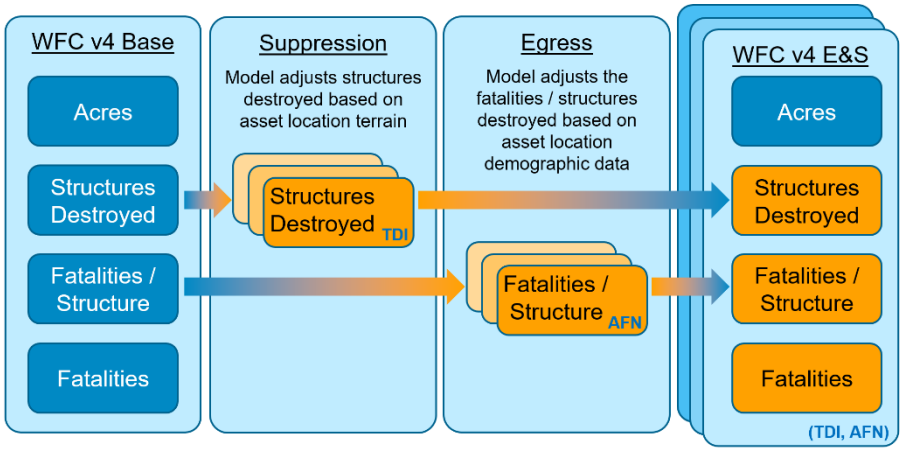


Figure 10 - Wildfire Consequence Model v4

4 Compositing and Aggregation

An important objective for the WDRM is to provide wildfire risk analysis in support of wildfire risk mitigation program planning, including System Hardening, Undergrounding, and Vegetation Management. Mitigation program planners need to understand model results in a larger context than the direct model outputs. Providing contextual values requires that the asset and spatial model results be composited and aggregated to the desired planning context. The WDRM, based on requirements originally provided by the System Hardening program, provides risk results that composite several of the event probability model risk results and aggregate these risks to circuit segments.

Detailed descriptions on circuit segment definitions, risk compositing, and risk aggregation can be found in the RaDA Algorithms and Methodologies documentation.

4.1 Model Results Aggregation

The WDRM is supported by Event Probability models that produce both equipment asset and geospatial results. Equipment Asset models produce results that estimate event probabilities or risk for individual assets at point locations. Spatial, or grid pixel, models, product results that estimate event probabilities or risk within 100m by 100m square pixels that form a grid over the distribution and transmission service territories. The Wildfire Consequence model also produces geospatial results assigned to the same 100m by 100m pixel grid. Assigning risk to a circuit segment context requires the aggregation of multiple grid pixel and equipment asset risk results.

4.1.1 Aggregation Methodology

Simply, circuit segment aggregation sums up all the potential risk that modeled along the length of a segment. *Figure 11* shows an example of two circuit segments that intersect multiple grid pixels and have multiple assigned equipment assets ( ). For geospatial models, this pixel risk for any pixel that is intersected by a circuit segment is summed to determine the aggregated pixel risk. For asset models, the risk for each asset belonging to the circuit segment is summed to determine the aggregated asset risk. Finally, the summed pixel and asset risks can in turn be summed to calculate the total aggregated circuit segment risk.

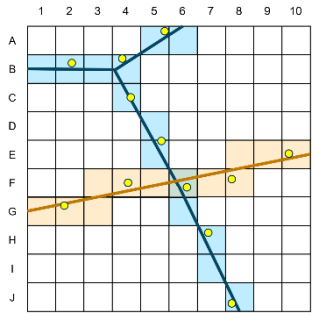


Figure 11 - Circuit Segment Aggregation

Shared pixels and assets complicate circuit segment aggregation of risk. In *Figure 11* the two circuit segments share a common pixel, F6, and a support structure (pole) asset also located in pixel F6. To keep the total sum of risk on the network constant, these shared risk results must be partially distributed to each of the circuit segments. The aggregation methodology, in this case, would assign half of the F6 pixel risk and half of the support structure risk to each of the circuit segments.

Aggregation methodology is described in more detail in RaDA Algorithms and Methodologies documentation.

4.2 Compositing Event Models

Ultimately, the purpose for the WDRM is to inform the prioritization of wildfire risk mitigation programs. The WDRM event probability model risk results can be flexibly composited to provide risk values and priority rankings for specific mitigation programs. Using composited results, programs can prioritize mitigation of the highest total risks while using the contributing event probability models to understand the best mediation approach to handle the specific components of risk.

Risk can be composited for any combination event probability models. Mitigation planners and Subject Matter Experts can focus on the drivers of risk for which they are responsible with confidence that their composited view is relevant to their work planning needs.

4.2.1 Compositing Methodology

An event probability model produces, by asset or pixel, a probability of ignition. Combining a probability of ignition with its consequence produces the wildfire risk. Probability of ignition and risk results can be composited to create total probability of ignition and total risk. As visualized in *Figure 12*, individual model results are summed to determine total composite results.

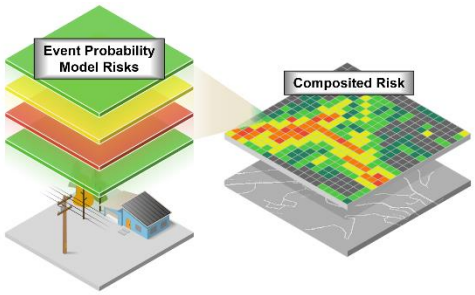


Figure 12 - Model Compositing

Compositing methodology is described in more detail in RaDA Algorithms and Methodologies documentation.

4.2.2 Mitigation Composites

Mitigation program work planners are often interested in a partial set of event probability model risk results. Custom composites are configured so that the total risk for only the applicable event models gets considered as part of the work prioritization process. *Figure 13* illustrates how model selection can be used to configure a composite for a specific work plan.

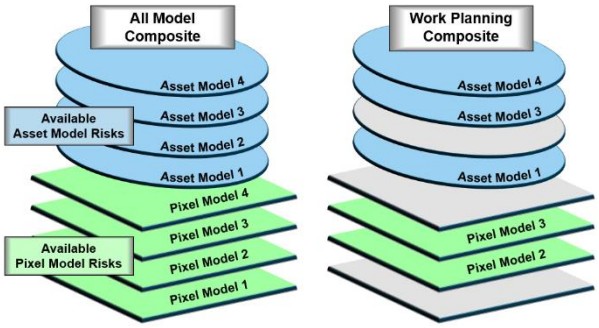


Figure 13 - Mitigation Composite Membership

WDRM v4 delivers the following mitigation composites, composed from the 23 available event probability models:

Table 1 – WDRM v4 Mitigation Composites

Event Probability Model	All Composite	System Hardening	Vegetation Management
Animal – Bird	✓	✓	×
Animal – Squirrel	✓	✓	×
Animal – Other	✓	✓	×
Capacitor Bank	✓	✓	×
Dynamic Protection Device (DPD)	✓	✓	×
Fuse	✓	✓	×
Primary Conductor – Line Slap	✓	✓	×
Primary Conductor – Wire Down	✓	✓	×
Primary Conductor – Other	✓	✓	×
Secondary Conductor	✓	✓	×
Support Structure – Electrical	✓	×	×
Support Structure – Equipment	✓	✓	×
Switch	✓	✓	×
Third Party – Balloon	✓	✓	×
Third Party – Vehicle	✓	✓	×
Third Party – Other	✓	✓	×
Transformer – Failure	✓	✓	×
Transformer – Leaking	✓	×	×
Vegetation – Branch	✓	✓	✓
Vegetation – Trunk	✓	✓	✓
Vegetation – Other	✓	✓	✓
Voltage Regulator	✓	✓	×
Other Equipment	✓	✓	×

4.3 Composite Aggregation

Composites are defined in support of a specific mitigation program. As mentioned previously, many mitigation programs are aggregates of risk results, most commonly the context of circuit segments. Aggregating composite results require a specific calculation procedure.

4.3.1 Aggregated Composite Probability of Ignition and Risk

The aggregation of event probability of ignition and risk composites is relatively straightforward as they are simply sums of all component results. *Figure 14* provides a simple example where a circuit segment is comprised of several assets located in two consequence pixels. The composited results for the assets ( ) are shown beneath the consequence grid pixels. The aggregation of the composited values for probability of ignition and wildfire risk are shown in the blue-shaded boxes to the lower right.

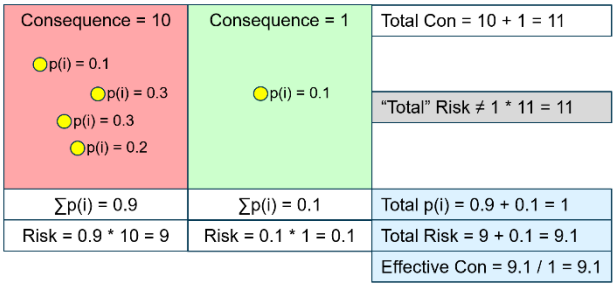


Figure 14 - Composite Aggregation Example

4.3.2 Aggregated Composite Ignition-Weighted Consequence

Unfortunately, consequence values cannot be directly composited like probability of ignition and wildfire risk when aggregating contextually to circuit segments. This is because the process of compositing and circuit segment aggregation will combine each consequence pixel result with a varying number of event probability of ignition results. Referring again to *Figure 14*, we can see in the gray-shaded box that using a simple sum of the consequence values and the total probability of ignition will not yield the correct total risk.

The resolution to this mathematical inconsistency is to back-calculate the effective, or ignition-weighted, consequence for an aggregated composite by dividing the total aggregated risk by the total aggregated probability of ignition. This calculation is shown in the blue-shaded box at the lower right-hand corner of the example.

5 Results and Model Performance

WDRM v4 benefited from improvements to both the Event Probability Models for outages and ignitions and the Wildfire Consequence Model. As a result of the many contributing model improvements, WDRM v4 produces risk values that show a general flattening of the risk profile for the service territory.

5.1 WDRM v4 Performance

WDRM wildfire risk is calculated using predicted values from the supporting Event Probability and Wildfire Consequence models. Therefore, WDRM performance is dependent on the performance of the supporting models. Significant performance improvements were realized for WDRM v4 from both supporting models.

A focused effort was made to improve the quality of the event probability datasets. Historical event records were reviewed to correctly attribute failures and ignitions to their correct cause and equipment asset relationships were improved so that risk could be determined and aggregated appropriately. In addition, both the failures and ignitions datasets were corrected for probable impacts of EPSS activation.

Several new event probability models were introduced for v4, including Fuses, Switches, and Voltage Regulators as well as introducing three Primary Conductor causal models for Line Slap, Wire Down, and Other. Also introduced for v4 were Asset-based models. New models were developed as Asset-based, while v3 pixel-based spatial models for Capacitor Banks, DPD, Primary Conductors, Support Structures, and Transformers were transitions to Asset-based. These changes contributed to improved model performance for both probability of outage and probability of ignition predictions.

Figure 15 provides an overview of Event Probability Model v4 performance. Performance values shaded in green show strong performance, in tan demonstrate adequate performance, and a few, shown in gray, exhibit poor performance.

Event Model	p(o) AUC	p(i) AUC	p(o) Conc. Factor	p(i) Conc. Factor
Animal – Bird	0.651	0.683	1.79	2.16
Animal – Squirrel	0.839	0.852	3.70	3.91
Animal - Other	0.741	0.756	2.53	2.93
Capacitor Bank	0.558	0.549	1.40	1.40
DPD	0.625	0.475	1.00	1.50
Fuse	0.669	0.681	2.00	2.10
Primary Conductor – Line Slap	0.770	0.757	3.33	3.33
Primary Conductor – Wire Down	0.628	0.639	1.91	1.78
Primary Conductor - Other	0.694	0.706	2.75	2.50
Secondary Conductor	0.718	0.728	2.49	2.59
Support Structure - Electrical	0.854	0.848	3.90	3.70
Support Structure - Equipment	0.602	0.654	1.63	2.02
Switch	0.637	0.608	1.67	1.67
Third Party - Balloon	0.801	0.817	3.25	3.42
Third Party - Vehicle	0.681	0.712	1.85	2.23
Third Party - Other	0.613	0.672	1.78	2.05
Transformer – Equipment	0.725	0.748	2.94	3.53
Transformer – Leaking	0.865	0.845	5.00	5.00
Vegetation - Branch	0.804	0.824	3.20	3.43
Vegetation - Trunk	0.825	0.832	3.40	3.45
Vegetation - Other	0.760	0.771	2.57	2.74
Voltage Regulator	0.739	0.720	2.00	2.00
Other Equipment	0.640	0.650	1.82	2.05

Figure 15 - Event Probability v4 Model Performance

More details on Event Probability Model v4 performance can be found in Distribution Network Event Probability Models v4 Documentation.

The Wildfire Consequence Model v4 achieved performance improvements from several initiatives. Fire simulation times were increased from 8 to 24-hours, historical fire datasets were reviewed and cleaned to increase number of fires used of model calibration, a Dry Wind Conditions index was developed, Technosylva's Terrain Difficulty Index was incorporated, and public Egress and fire Suppression impacts adjustments were added to the v4 model.

The many model updates contributed to better performance for all three model outputs as shown in *Figure 16*. In each case the v4 model high consequence areas account better for historical fires.

More details on Event Probability Model v4 performance can be found in Wildfire Consequence Model v4 Documentation.

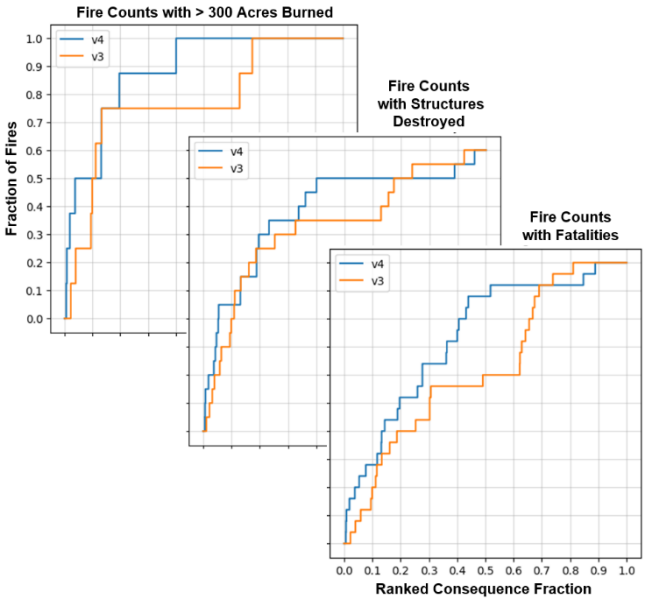


Figure 16 - Wildfire Consequence v4 Performance

5.2 WDRM v3/v4 Comparison

The most significant discovery when comparing WDRM v4 with its predecessor v3 is that wildfire risk is more widely distributed across the distribution grid than previously thought. This is most easily understood from a comparison of the v3 and v4 risk buydown curve as shown in *Figure 17*.

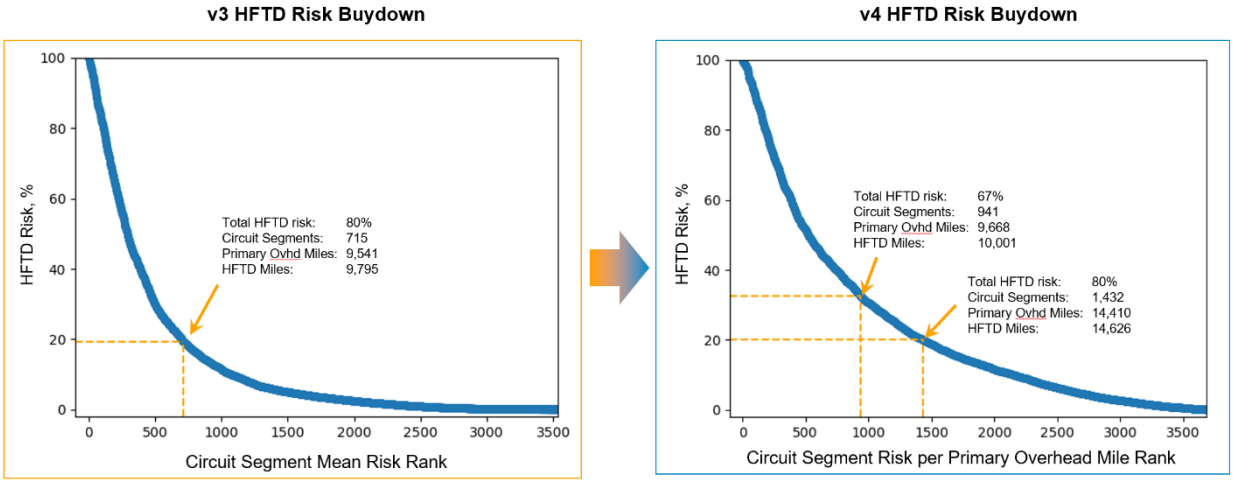


Figure 17- WDRM v3/v4 Risk Buydown Curves

The WDRM v4 risk buydown curve is noticeably flatter, and critically, increases the amount of primary overhead conductor length that represents 80% of the HFTD wildfire risk from 10,000 to 14,400 miles. While the flattened v4 risk buydown curve has multiple sources in the updated models, the most pronounced effect from is the Wildfire Consequence Model. Consequence results were likewise flattened when comparing v4 with v3.4, in large part due to the addition of public Egress and fire Suppression impacts.

Another way to visualize the redistribution of wildfire risk in WDRM v4 is to look at relative county risk aggregations as shown in *Figure 18*. For WDRM v3, El Dorado County dominated the concentration of risk for the distribution grid. WDRM v4 shows a more even distribution of risk. While El Dorado County still has the highest concentration of risk for v4, several other counties are similar in risk. Particularly notable is the increase in relative percent of aggregated risk for Sonoma and Fresno counties as detailed in *Figure 19*.

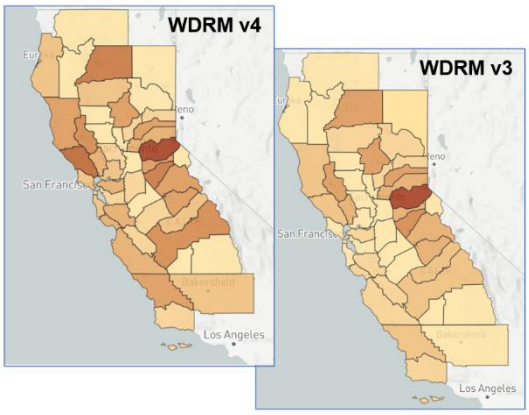


Figure 18 - WDRM v3/v4 Relative County Risk Aggregations

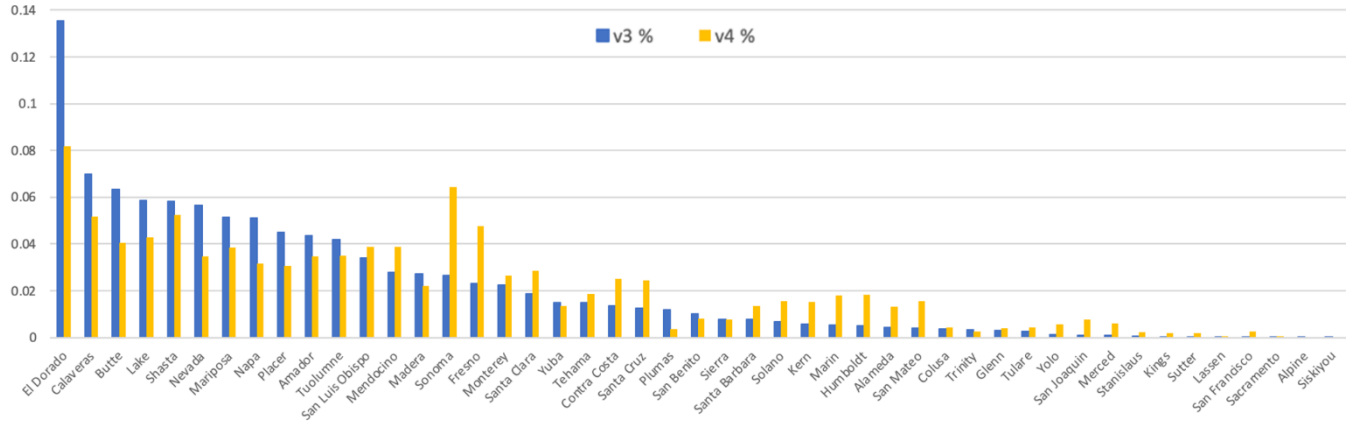


Figure 19- WDRM v3/v4 Relative County Risk Distribution

Finally, the System Hardening maps implemented in Foundry provide a more detailed look at how circuit segment relative risk values have changed from WDRM v3 to v4.

Figure 20 is the relative risk map for WDRM v3 emphasizing the circuit segments that are in the top 30% in terms of risk rank, with the top 1% of ranked circuit segments shown in red. Circuit segments outside the top 30% of risk rank are shown in a dark blue.

For WDRM v3, the western Sierras had a very high concentration of top 1% risk.

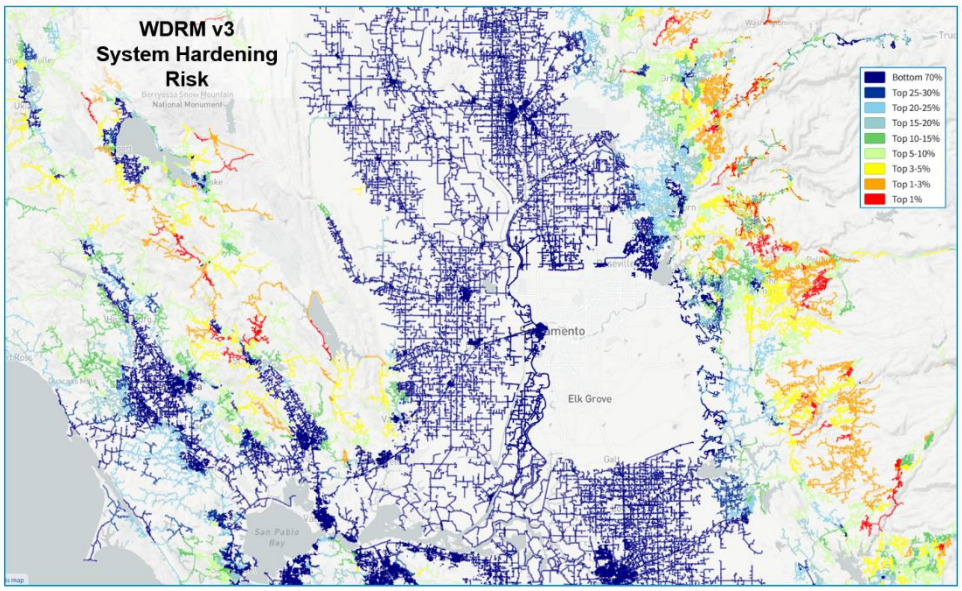


Figure 20 - WDRM v3 System Hardening Risk Map

As described previously, WDRM v4 produces a flatter risk curve and shifts relative areas of risk when compared with v3. *Figure 21* is a heat map of relative risk change between WDRM v3 and v4 where dark red indicates the relative risk increased and dark blue highlights where the relative risk decreased for the transition from WDRM v3 to v4.

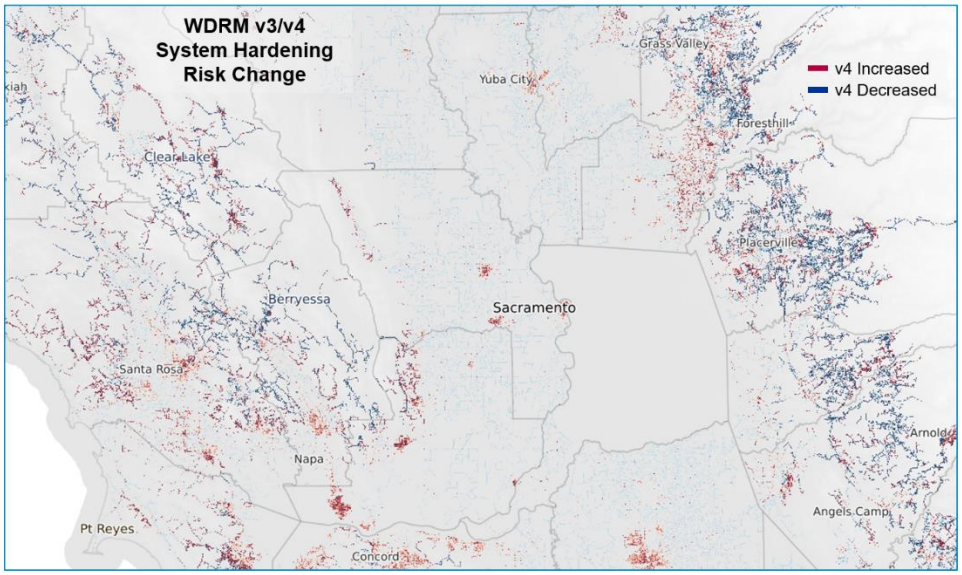


Figure 21 - WDRM v3/v4 Relative Risk Change Map

Figure 22 presents the WDRM v4 relative risk map, again emphasizing the top 30% of circuit segments by relative risk rank.

A visual comparison with the WDRM v3 map confirms that WDRM v4 projects lower relative risk for the western Sierras while elevating relative risk for the coastal mountains. The shift in relative risk between WDRM v3 and v4 contributes to the general flattening of the risk buydown curve.

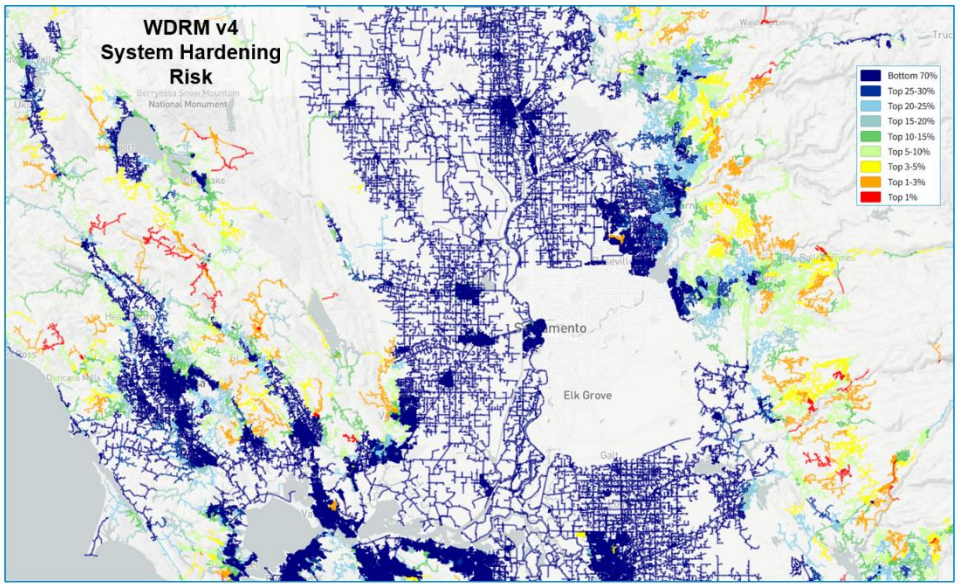


Figure 22 - WDRM v4 System Hardening Risk Map

5.3 Validation Reviews

WDRM v4 went through several formal and informal reviews during development. The critical model reviews were with PG&E's Wildfire Risk Governance Steering Committee and an external review performed by third-party Energy and Environmental Economics, Inc. (E3).

5.3.1 Wildfire Risk Governance Steering Committee Review

Several review meetings were held with the Wildfire Risk Governance Steering Committee during the development of WDRM v4. Three specific areas of WDRM v4 development were in response to action items from the 2023 Wildfire Mitigation Plan (WMP). Each WMP action item was reviewed with the committee to inform and obtain agreement to implement planned development in WDRM v4. Inform review meetings were also held for the Wildfire Consequence Model v4 and WDRM v4 Release Candidate 3 (RC3). Finally, WDRM v4 RC4 was approved as WDRM v4 at an approval meeting held on January 11th, 2024.

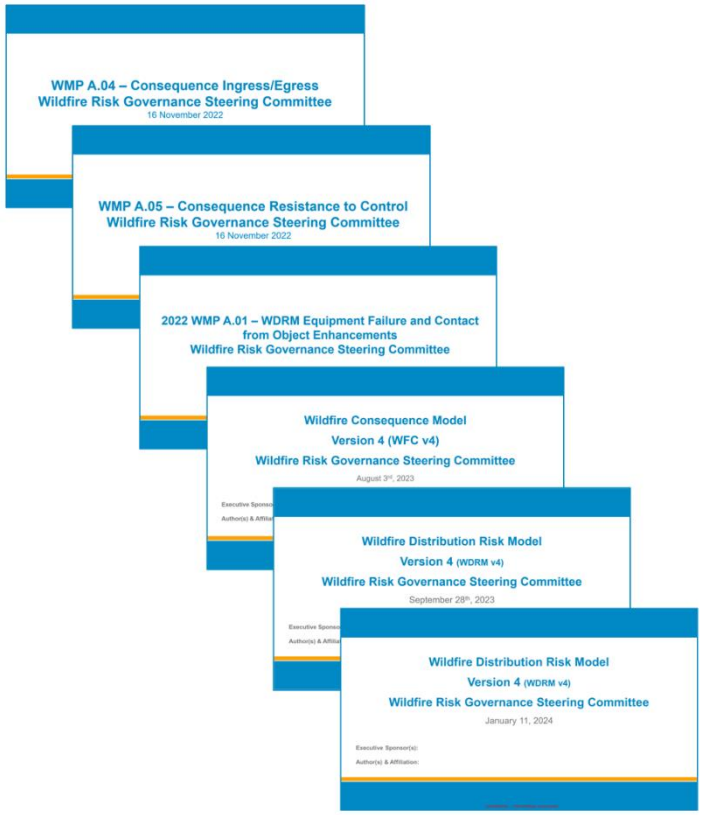


Figure 23 - WRGSC Review Meetings

5.3.2 Energy and Environmental Economics, Inc. (E3) Review

An independent, third-party review of the WDRM v4 was conducted by E3 to evaluate the following objectives:

- Review the suitability and applications of consequence data in the modelling framework.
- Review the specific use of the risk model information in each of its operations areas.
- Describe potential future uses of v4 and longer-term multi-year wildfire planning models.

A few comments from the E3 review:

> *"As with in our previous reviews, overall we have seen considerable improvement between versions of the PG&E wildfire risk modeling effort."*
>
> *"Over the last several years, PG&E has continued to improve upon their wildfire risk modeling framework and has built a suite of models that is capable of systematically quantifying the wildfire risk across their system, frequently going above and beyond requirements."*

"PG&E should continue development of the model to inform the entire risk planning decision space, building on v4 to produce transparent and justifiable company-wide mitigation budgets for short- and long-term planning. While we continue to believe that the combination of informed risk modeling and experienced SME's provides a robust risk management framework, we also believe that the models, as they become more informative, should have an increasing role in the decision-making process."

E3 identified several potential improvements for future versions of the WDRM:

"*Our findings from this review are based on documentation provided by PG&E on their v4 model, interviews with PG&E's risk modeling team, and interviews with experts comprising the external technical advisory committee assembled by E3. The following bullets re-state the most pertinent recommendations stemming from our present review:*

- *PG&E should focus on using its model to develop transparent and justifiable company-wide mitigation budgets.*
- *Given the unique nature of wildfire risk and mitigations, consideration should be given to cost recovery mechanisms outside of the traditional general rate case.*
- *Development efforts should be right-sized based on impact.*
- *PG&E should seek to improve and justify simplifications made in the consequence model.*
- *Uncertainty should be incorporated into modeling outputs to stabilize results.*
- *PG&E should consider incorporating air quality and health impacts."*

6 WDRM Future Plans

PG&E has historically produced the WDRM on an annual cycle. In the future, WDRM releases will be aligned with the WMP filing schedule. Therefore, this version of the WDRM is planned in support of the 2026 WMP. The RaDA team 3-year risk modeling product plan is shown in *Figure 24* with WDRM plans highlighted in blue font.

WDRM v4 delivered several features planned for 2024/2025 development. Additional features will be delivered during the remainder of 2024 and 2025. Substantial efforts are also expected to further improve the capture, detail, maintenance, and curation of data sets used for risk models. Future risk modeling will progress beyond informing mitigation work plan development and expects to provide risk and risk reduction values in support of data driven portfolio level decisions for the Integrated Grid Planning process.

Products	2026 WMP	Future WMP

Event Probability Models	• Data Quality Improvement
	• Model Refresh / Calibration
	• Asset Models – Distribution
	  • Switches
	  • Fuses
	  • Capacitor Banks
	  • Voltage Regulators
	• Asset Health – Tags
	• Work Plan Model Causality
	• Animal/Third Party – Distribution
	• Vegetation
	  • Tree Mortality
	  • Time Series Update
	• Insulator Contamination Update
		• Data Quality Improvements
		• Model Refresh / Calibration
		• Full Year Models
		• Asset Model – Distribution
		  • Secondary Conductor
		• Underground Assets
		• Lightning
		• Seismic – Distribution
		• Third Party – Transmission

Risk Models	• WDRM v4 • WTRM v2 • Public Safety Risk Model v2 • Reliability Risk Model v1 • Integrated Grid Planning	• WDRM Update • WTRM Update • Risk Mitigation Automation • Risk Reduction Reporting
Consequence Models	• Wildfire Consequence v4 • Wildfire Egress Impact • Wildfire Suppression Impact • Public Safety Consequence v2 • Reliability Consequence v1	• Wildfire Consequence Update • Conflagration • Vulnerable Communities • WUI Population Growth

Figure 24 - RaDA Product Plan - WDRM

The product plan for the Event Probability Models that contribute to the WDRM calls for the development of new risk driver causal models to improve predictive performance and provide more selectivity for mitigation work plans. In response to our user community needs to compare and balance investments across multiple risks, the Event Probability Models will be expanded beyond its current annual fire season focus to predict failures, outages, and ignitions for the full calendar year.

The Wildfire Consequence Model will continue to evolve, refining the Egress and Suppression impacts delivered for v4 and developing new impact features for vulnerable communities, conflagration, and fire consequence in the Wildland Urban Interface (WUI).

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

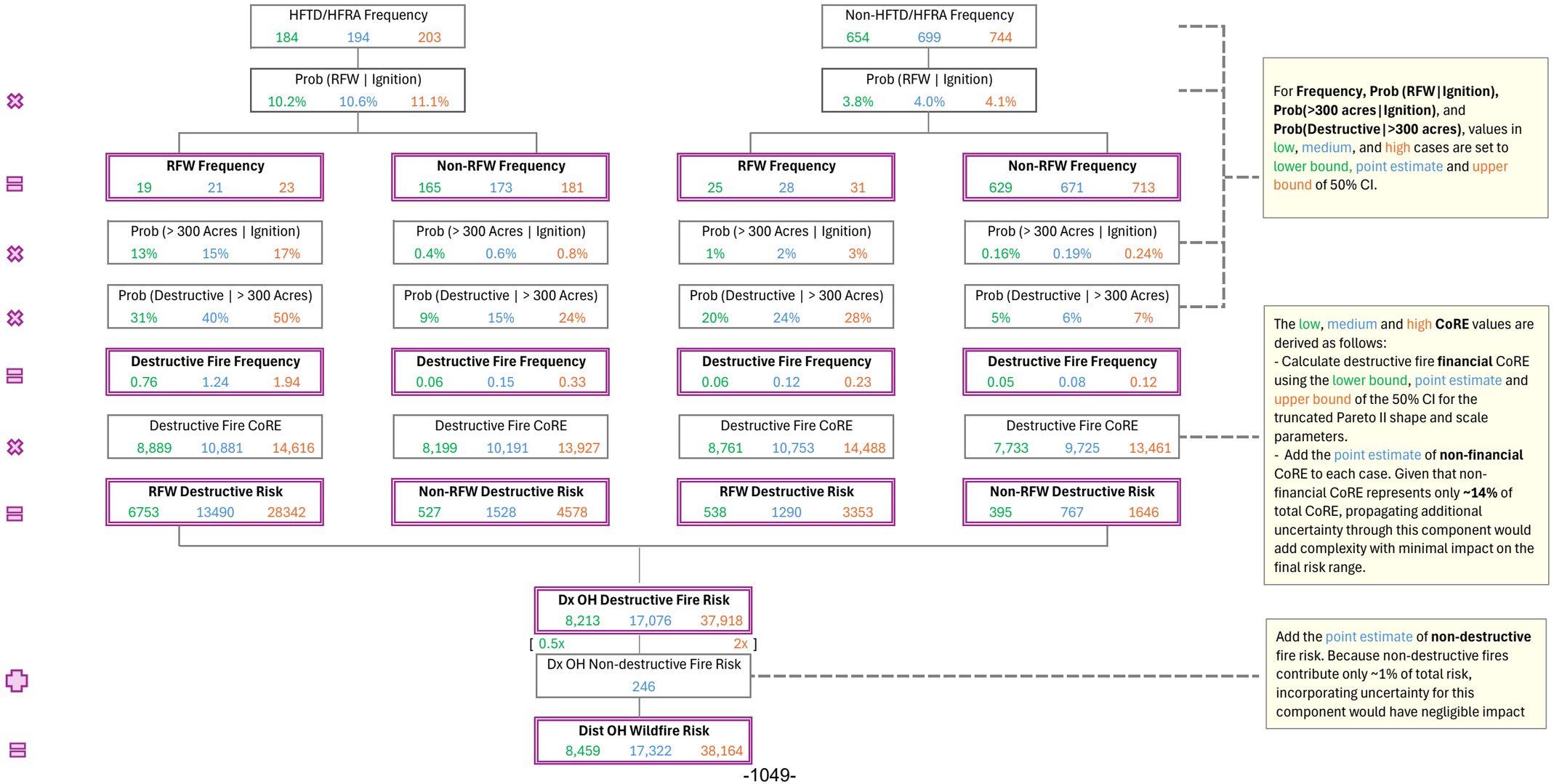
WP027

WILDFIRE BOW TIE TOY PROBLEM

Workpaper 027
Pacific Gas and Electric Company
Electrical Undergrounding Program
Wildfire Bow Tie Toy Problem

Wildfire Bow Tie Model Toy Problem

*Description: This analysis presents the toy problem of wildfire risk bow tie, focusing on **distribution overhead destructive fire risk**.*
- *The low, medium, and high cases are based on the lower bound, point estimate, and upper bound of the **50%** confidence interval (CI), respectively, for each key input:*
  1) Ignition Frequency — stratified by HFTD/HFRA designation
  2) Probability of Red Flag Warning (RFW) given an ignition, Prob(RFW|Ignition), — stratified by HFTD/HFRA designation
  3) Probability of an ignition burning greater than 300 acres, Prob(>300 acres|Ignition), — stratified by HFTD/HFRA and RFW designations
  4) Probability of a greater-than-300-acres fire becoming destructive, Prob(Destructive|>300 acres), — stratified by HFTD/HFRA and RFW designations
  5) Shape and scale parameters of truncated Pareto II distribution for financial consequence.
- *The resulting destructive fire risk estimates range from approximately 0.5x to 2x the medium-case estimate.*
- *The point estimate of non-destructive fire risk is subsequently added to derive the final risk range. Because non-destructive fires contribute only ~1% of total risk, incorporating uncertainty for this component would have negligible impact on the overall range.*



PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP028

IGNITION CONSEQUENCE TOY PROBLEM

Workpaper 028
Pacific Gas and Electric Company
Electrical Undergrounding Program
Ignition Consequence Toy Problem

FIRE POTENTIAL INDEX (FPI) MODEL

INPUTS	OUTPUTS
WEATHER	**R SCORE (FIRE GROWTH PROBABILITY)**
Wind Speed (mph)	R1 (Low)
Temperature (F)	R2 (Medium)
Vapor Pressure Deficit (mb)	R3 (High)
Turbulent Kinetic Energy (J/kg)	R4 (Very High)
Solar Radiation (shortwave flux) (W/sqm)	R5 (Extreme)
	R5-Plus (Extreme)
FUEL MOISTURE	
Dead Fuel Moisture (%)	
Live Fuel Moisture (%)	
Normalized Difference Vegetation Index (unitless)	
Soil Moisture (fraction)	
FUELS & VEGETATION	
Fuel category proportions (%)	
Fuel bed depth (ft)	
Fuel complexity (index)	
TERRAIN	
Slope (degrees)	
Terrain ruggedness (index)	

FIRE SIMULATIONS @ TECHNOSYLVA

INPUTS (Technosylva Proprietary)	OUTPUTS
Historical weather	Flame Length (ft)
Fuels	Rate of Spread (Chains/hr)
Terrain	
Wind Speed	
Historical Fire outcomes	

PREDICTIVE DESTRUCTIVE CRITERIA (PD)

FPI-R	>=4
OR	
Flame Length (FL)	>=5
AND	
Rate of Spead (ROS)	>=12

DRY WIND CONDITIONS (DWC)

Wind Speed	>= 19 mph
10-hr Dry Fuel Moisture	<=6%
Relative Humidity	<=30%

HIGH FIRE RISK AREA (HFRA)

Location in HFRA (Y or N)

WILFIRE CONSEQUENCE

	PD			DWC			HFRA	Access and Functional Needs (Egress Adjustment)	Terrain Difficulty Index (Suppression adjustment)	Wildfire Consequence (unitless relative measure)
	FPI-R	FL	ROS	Wind Speed	10-hr Dry Fuel Moistur	Relative Humidity				
Low Fire Spread risk	R1	2 ft	5 Ch/hr	5 mph	15%	60%	N	20-30% of the PG&E customer base are AFN customers	1	25
Medium Fire Spread risk	R2	3 ft	10 Ch/hr	12 mph	10%	40%	Y	40-45% of the PG&E customer base are AFN customers	3	400
High Fire Spread risk	R5	5 ft	12 Ch/hr	20 mph	5%	20%	Y	60-70% of the PG&E customer base are AFN customers	5	800

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP029

IGNITION LIKELIHOOD TOY PROGRAM

Workpaper 029
Pacific Gas and Electric Company
Electrical Undergrounding Program
Ignition Likelihood Toy Problem

Sub-model: Equipment-caused primary conductor wire down failure

Likelihood of Failure Model: p(failure)				
Inputs	**Units**	**Low Risk**	**Medium Risk**	**High Risk**
pole estimated age	years	71	75	71
conductor count	unitless	3	12	4
conductor length	feet	558	1086	466
pole height	feet	30	50	45
lidar max sag	feet	N/A	N/A	N/A
lidar val 60 90mph	inch	N/A	N/A	N/A
lidar val fault3000a	inch	N/A	N/A	N/A
conductor cross sectional area min	square inch	0.052	0.021	0.038
conductor ultimate strength lbs max	lbs / square inch	2517	3830	1830
conductor weight lbs max	lbs	114.2	65.2	20.5
splice ind	unitless	0	1	0
all open tag ind	unitless	0	0	1
corrosion zone ind	unitless	1	0	1
coastalidc ind	unitless	0	0	1
hftd ind	unitless	0	0	0
protected ind	unitless	1	1	1
summer max temp avg	Fahrenheit	68.3	111.3	91.4
winter max temp avg	Fahrenheit	63.0	99.1	79.8
summer max ws avg	mph	30.7	22.5	21.6
summer precip accumulative avg	inch	0.0	21.5	25.0
winter precip accumulative avg	inch	0.0	133.2	180.0
summer vpd avg	KPa	0.6	3.6	1.0
winter vpd avg	KPa	1.0	1.3	0.4
summer rel humidity avg	%	81.6	24.6	63.8
winter rel humidity avg	%	73.1	44.1	64.3
percent diff summer max temp avg	%	-6.5	4.5	4.2
percent diff summer max ws avg	%	-3.0	-10.1	-4.9
percent diff summer vpd avg	%	-10.4	-11.0	-36.7
percent diff summer rel humidity avg	%	2.2	-0.1	6.2
percent diff winter max temp avg	%	7.9	2.1	5.3
percent diff winter max ws avg	%	-3.3	-5.8	-2.9
percent diff winter vpd avg	%	-13.6	27.3	10.6
percent diff winter rel humidity avg	%	0.7	-6.4	-5.9
local topography	unitless	1.125	-0.375	3.25
nonburnable land index	unitless	0.3125	1	0.9375
satelite strike tree count	unitless	15	11	5
soil erosion kffact	unitless	0.33	0.32	0.02
construction type encoded horizontal	unitless	0	1	1
Output: probability of failure, p(failure)	**per fires season**	**0.0004**	**0.0011**	**0.0272**

Likelihood of Ignition Given Failure Model: p(ignition | failure)				
Inputs	**Units**	**Low Risk**	**Medium Risk**	**High Risk**
subset_name (failure driver)	unitless	primary_conductor_wire_down_cause	primary_conductor_wire_down_cause	primary_conductor_wire_down_cause
subset_group	unitless	primary_conductor_wire_down_cause	primary_conductor_wire_down_cause	primary_conductor_wire_down_cause
event_dfm_10hr*	%	0.129	0.087	0.120
event_dfm_1000hr*	%	0.148	0.094	0.120
dominant_ground_cover	unitless	fpi_v3_timber_litter	fpi_v3_urban	fpi_v3_shrub
event_ws_mph*	mph	19.0	12.8	16.2
Output: probability of ignition given a failure or outage, p(ignition | failure)	**unitless**	**0.0559**	**0.0881**	**0.1143**

Likelihood of Ignition: p(ignition)				
Outputs	**Units**	**Low Risk**	**Medium Risk**	**High Risk**
p(failure)	per fire season	3.90E-04	1.08E-03	2.72E-02
p(ignition|failure)	unitless	5.59E-02	8.81E-02	1.14E-01
p(ignition)	per fire season	2.18E-05	9.51E-05	3.11E-03

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP030

UNIT COST METHODOLOGY

Workpaper 030
Pacific Gas and Electric Company
Electrical Undergrounding Program
Unit Cost Methodology

Background	Table 1 presents PG&E's calculation of the proposed unit cost values included in the EUP Target/Timeline Table. The table illustrates how PG&E developed its unit cost forecast by incorporating resource allocation assumptions (i.e., sourcing strategies), unit cost improvement assumptions (i.e., work execution strategies), and escalation rates applicable to each resource type.

Table 1. Unit Cost Calculation Table by Resource Type

Year	Unit Costs Included in PG&E's EUP Target/Timeline Table		Resource Type								
			Lump Sum			Internal			Unit Pricing		
	Unit Cost Unescalated[d]	Unit Cost Escalated[c]	Resource Allocation[a]	Unit Cost w/ Improvements (Unescalated)[b,d]	Unit Cost w/ Improvements (Escalated)[b,c]	Resource Allocation[a]	Unit Cost w/ Improvements (Unescalated)[b,d,e]	Unit Cost w/ Improvements (Escalated)[b,c,e]	Resource Allocation[a]	Unit Cost w/ Improvements (Unescalated)[b,d]	Unit Cost w/ Improvements (Escalated)[b,c]
2025		$3.11	25%	$2.92	$2.92	15%	$3.45	$3.45	60%	$3.10	$3.10
2026		$3.25	25%	$3.05	$3.05	15%	$3.61	$3.61	60%	$3.24	$3.24
2027		$3.03	25%	$2.84	$2.84	15%	$3.39	$3.39	60%	$3.02	$3.02
2028	$3.05	$3.05	25%	$2.85	$2.85	15%	$3.45	$3.45	60%	$3.03	$3.03
2029	$3.03	$3.10	30%	$2.84	$2.91	13%	$3.44	$3.55	57%	$3.03	$3.10
2030	$3.00	$3.14	37%	$2.84	$2.96	12%	$3.43	$3.65	51%	$3.02	$3.15
2031	$2.98	$3.18	43%	$2.83	$3.01	11%	$3.42	$3.75	46%	$3.01	$3.21
2032	$2.96	$3.23	49%	$2.82	$3.07	11%	$3.41	$3.86	40%	$3.00	$3.26
2033	$2.95	$3.30	53%	$2.82	$3.13	12%	$3.40	$3.97	35%	$3.00	$3.33
2034	$2.94	$3.36	58%	$2.81	$3.19	13%	$3.40	$4.09	29%	$2.99	$3.39
2035	$2.92	$3.42	63%	$2.80	$3.25	13%	$3.39	$4.21	24%	$2.98	$3.45
2036	$2.91	$3.49	68%	$2.79	$3.31	14%	$3.38	$4.33	18%	$2.97	$3.52
2037	$2.90	$3.56	72%	$2.79	$3.37	15%	$3.37	$4.45	13%	$2.96	$3.59

Assumptions

[a]Resource Allocation

The annual percentage of the proposed EUP annual mileage targets assumed to be allocated to each resource type (e.g., Lump Sum, Unit Price, Internal). See PG&E's EUP Chapter 5, Section 3.c.1 *"Sourcing Strategies to Reduce Program Costs"* for additional information. Leveraging internal resources for a portion of future EUP work helps ensure continuity of program knowledge, effective allocation of resources across EUP and non-EUP obligations, and sustained accountability for safety, schedule, and performance outcomes.

[b]Unit Cost Basis

The baseline unit costs shown below reflect actual costs by resource group and are used as the starting point from which escalation rates and improvements are applied to derive the forecasted 2028 - 2037 EUP Unit Cost Targets. The actual unit costs shown below reflect varying levels of project complexity between resource types, which may not be indicative of the future mix of project complexity assigned to each resource group.

Resource	Unit Cost	Basis
External - Lump Sum	$2.92	2025 Actuals
Internal	$3.45	2023 - 2025 Average Actuals
External - Unit Pricing	$3.10	2023 - 2025 Average Actuals

[c]Escalated

Using the Unit Cost Basis, yearly increases in unit costs are calculated using the escalation rates below for years 2026 through 2037.

Resource	Escalation Rate Used	Escalation Rate Source
External - Lump Sum	Composite	S&P Q1 2026[1]
External - Unit Pricing		
Internal	Internal Labor	Aligned with internal labor escalation expectations
	Non-Labor	S&P Q1 2026[1]

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Year	Internal Labor Escalation Rate	Non-Labor Escalation Rate	Composite Escalation Rate
2026	5.00%	4.51%	4.51%
2027	5.00%	3.70%	3.70%
2028	5.00%	2.90%	2.90%
2029	3.75%	2.37%	2.37%
2030	3.75%	2.02%	2.02%
2031	3.75%	1.99%	1.99%
2032	3.75%	2.06%	2.06%
2033	3.75%	2.13%	2.13%
2034	3.75%	2.16%	2.16%
2035	3.75%	2.16%	2.16%
2036	3.75%	2.18%	2.18%
2037	3.75%	2.18%	2.18%

[d]Unescalated

Annual unit cost values between 2028 and 2037 are presented unescalated, in 2028 dollars. Unescalated unit costs are expected to decrease by 5% from 2028 to 2037 as sourcing strategies and work execution strategies to reduce program costs described PG&E's EUP Chapter 5, Section 3.c are implemented. Additionally, unit cost reductions are also assumed in 2027 and 2028 prior to the start of the EUP period.

[e]Internal Unit Cost

Comprised of "Labor" (60.36%) and "Non-Labor" (39.64%) components; each component's escalation rate is calculated separately (where applicable).

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP031

OVERALL UTILITY RISK (OUR) TOY PROBLEM

Workpaper 031
Pacific Gas and Electric Company
Electrical Undergrounding Program
OUR Escalation Toy Problem

OUR Climate Escalation Toy Problem Results

Description: This workpaper illustrates how Overall Utility Risk (OUR) values change over the EUP planning period when both inflation and climate-driven risk escalation are incorporated. The Baseline Risk section provides the 2025 starting risk values. The Escalation Factors section shows the annual factors applied to reflect projected changes in inflation, wildfire risk, PSPS risk, and EPSS risk over time. The Escalated & Inflated Values section applies these factors to calculate annualized risk values and compares the resulting climate-adjusted OUR against a static, non-escalated baseline. The difference between the two represents the incremental increase in OUR attributable to inflation and evolving climate risk conditions throughout the EUP period.

	Inflation Rate	2.28%

Baseline Risk Values (in 2025 Values) ($M)	**Scenario**	**Low**	**Medium**	**High**
	Wildfire Risk	$1.00	$2.00	$4.00
	PSPS Risk	$0.07	$2.82	$6.51
	EPSS Risk	$0.02	$3.78	$16.08

Escalation Factors	**Year**	**2025**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**
	Inflation Rate Factor	1.00	1.07	1.09	1.12	1.14	1.17	1.20	1.22	1.25	1.28	1.31
	Wildfire Climate Escalation Factor	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10
	PSPS Climate Escalation Factor	1.00	1.01	1.01	1.01	1.02	1.02	1.03	1.03	1.03	1.04	1.05
	EPSS Climate Escalation Factor	1.00	1.01	1.01	1.01	1.02	1.03	1.03	1.04	1.04	1.05	1.06
Low Risk Scenario												
Escalated & Inflated Values ($M)	**Wildfire Risk Escalated & Inflated**	$1.00	$1.08	$1.12	$1.15	$1.19	$1.23	$1.27	$1.31	$1.35	$1.40	$1.44
	PSPS Risk Climate Escalated & Inflated	$0.07	$0.08	$0.08	$0.08	$0.08	$0.08	$0.09	$0.09	$0.09	$0.09	$0.10
	EPSS Risk Climate Escalated & Inflated	$0.02	$0.02	$0.02	$0.02	$0.02	$0.02	$0.02	$0.03	$0.03	$0.03	$0.03
	Overall Utility Risk Climate Escalated & Inflated	**$1.09**	**$1.18**	**$1.22**	**$1.25**	**$1.30**	**$1.34**	**$1.38**	**$1.42**	**$1.47**	**$1.52**	**$1.57**
	Overall Utility Risk (Non Climate Escalated or Inflated)	**$1.09**	**$1.09**	**$1.09**	**$1.09**	**$1.09**	**$1.09**	**$1.09**	**$1.09**	**$1.09**	**$1.09**	**$1.09**
	Increase in Overall Utility Risk due to Climate Escalation & Inflatio	**$0.00**	**$0.09**	**$0.13**	**$0.16**	**$0.21**	**$0.25**	**$0.29**	**$0.33**	**$0.38**	**$0.43**	**$0.48**
Medium Risk Scenario												
Escalated & Inflated Values ($M)	**Wildfire Risk Escalated & Inflated**	$2.00	$2.16	$2.23	$2.31	$2.38	$2.46	$2.54	$2.62	$2.71	$2.79	$2.88
	PSPS Risk Climate Escalated & Inflated	$2.82	$3.04	$3.11	$3.19	$3.28	$3.37	$3.47	$3.56	$3.64	$3.77	$3.88
	EPSS Risk Climate Escalated & Inflated	$3.78	$4.08	$4.18	$4.29	$4.41	$4.54	$4.66	$4.82	$4.94	$5.08	$5.23
	Overall Utility Risk Climate Escalated & Inflated	**$8.60**	**$9.27**	**$9.52**	**$9.78**	**$10.07**	**$10.36**	**$10.67**	**$10.99**	**$11.28**	**$11.65**	**$12.00**
	Overall Utility Risk (Non Climate Escalated or Inflated)	**$8.60**	**$8.60**	**$8.60**	**$8.60**	**$8.60**	**$8.60**	**$8.60**	**$8.60**	**$8.60**	**$8.60**	**$8.60**
	Increase in Overall Utility Risk due to Climate Escalation & Inflatio	**$0.00**	**$0.67**	**$0.92**	**$1.18**	**$1.47**	**$1.76**	**$2.07**	**$2.39**	**$2.68**	**$3.05**	**$3.40**
High Risk Scenario												
Escalated & Inflated Values ($M)	**Wildfire Risk Escalated & Inflated**	$4.00	$4.32	$4.47	$4.61	$4.76	$4.92	$5.08	$5.24	$5.41	$5.59	$5.77
	PSPS Risk Climate Escalated & Inflated	$6.51	$7.01	$7.18	$7.36	$7.57	$7.78	$8.01	$8.21	$8.40	$8.71	$8.96
	EPSS Risk Climate Escalated & Inflated	$16.08	$17.34	$17.77	$18.23	$18.76	$19.30	$19.84	$20.48	$21.01	$21.62	$22.26
	Overall Utility Risk Climate Escalated & Inflated	**$26.59**	**$28.67**	**$29.42**	**$30.20**	**$31.09**	**$31.99**	**$32.92**	**$33.94**	**$34.83**	**$35.91**	**$36.98**
	Overall Utility Risk (Non Climate Escalated or Inflated)	**$26.59**	**$26.59**	**$26.59**	**$26.59**	**$26.59**	**$26.59**	**$26.59**	**$26.59**	**$26.59**	**$26.59**	**$26.59**
	Increase in Overall Utility Risk due to Climate Escalation & Inflatio	**$0.00**	**$2.08**	**$2.83**	**$3.61**	**$4.50**	**$5.40**	**$6.33**	**$7.35**	**$8.24**	**$9.32**	**$10.39**

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT B

WP032

CIRCUIT SEGMENT LIST

Workpaper 032
Pacific Gas and Electric Company
Electrical Undergrounding Program
Circuit Segment List

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
PUEBLO 21031970	PUEBLO 2103	3.135967006	Proj00001	Napa	Tier 2	TRUE	TRUE	TRUE
MIWUK 1701CB	MIWUK 1701	4.561286176	Proj00002	Tuolumne	Tier 3	FALSE	TRUE	TRUE
FORESTHILL 1101CB	FORESTHILL 1101	9.01747145	Proj00003	Placer	Tier 3	TRUE	TRUE	TRUE
DUNBAR 1103799422	DUNBAR 1103	0.432857929	Proj00004	Sonoma	Tier 3	FALSE	TRUE	TRUE
FORESTHILL 11011820	FORESTHILL 1101	5.670887728	Proj00005	Placer	Tier 3	FALSE	TRUE	TRUE
GIRVAN 1101CB	GIRVAN 1101	1.233338092	Proj00006	Shasta	Tier 2	FALSE	TRUE	TRUE
LOS GATOS 1107812664	LOS GATOS 1107	8.187804863	Proj00007	Santa Clara	Tier 3	TRUE	TRUE	TRUE
GEYSERVILLE 1102904170	GEYSERVILLE 1102	21.17834497	Proj00008	Sonoma	Tier 3	TRUE	TRUE	TRUE
ALTO 1124430	ALTO 1124	7.051437886	Proj00009	Marin	Tier 3	FALSE	TRUE	TRUE
LAURELES 111268454	LAURELES 1112	7.815626401	Proj00010	Monterey	Tier 2	FALSE	TRUE	TRUE
EL DORADO PH 2101668674	EL DORADO PH 2101	9.351369089	Proj00011	El Dorado	Tier 3	FALSE	TRUE	TRUE
JESSUP 110168362	JESSUP 1101	4.854890901	Proj00012	Shasta	Tier 2	FALSE	TRUE	TRUE
BEN LOMOND 0401944178	BEN LOMOND 0401	7.715229106	Proj00013	Santa Cruz	Tier 3	FALSE	TRUE	TRUE
WOODACRE 1102851	WOODACRE 1102	1.260822939	Proj00014	Marin	Tier 3	FALSE	TRUE	TRUE
ELECTRA 1101CB	ELECTRA 1101	23.28232258	Proj00015	Amador	Tier 2	TRUE	TRUE	TRUE
MARIPOSA 210110070	MARIPOSA 2101	25.69597947	Proj00016	Mariposa	Tier 2	TRUE	TRUE	TRUE
SAN RAFAEL 1108322	SAN RAFAEL 1108	7.252187247	Proj00017	Marin	Tier 3	FALSE	TRUE	TRUE
OAKLAND X 1104CR288	OAKLAND X 1104	2.67833823	Proj00018	Alameda	Tier 3	FALSE	TRUE	TRUE
WOODACRE 1102137662	WOODACRE 1102	8.534041043	Proj00019	Marin	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210510294	CAMP EVERS 2105	4.899493871	Proj00020	Santa Cruz	Tier 3	FALSE	TRUE	TRUE
STILLWATER 11021466	STILLWATER 1102	20.14158015	Proj00021	Shasta	Tier 2	TRUE	TRUE	TRUE
KONOCTI 1102714370	KONOCTI 1102	2.411340082	Proj00022	Lake	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 21069712	PLACERVILLE 2106	24.70650298	Proj00023	El Dorado	Tier 3	FALSE	TRUE	TRUE
MENLO 1102628458	MENLO 1102	1.141460638	Proj00024	San Mateo	Tier 2	FALSE	TRUE	TRUE
ALTO 11221260	ALTO 1122	2.841383023	Proj00025	Marin	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 2105534190	CAMP EVERS 2105	3.391908236	Proj00026	Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CORTINA 1101302192	CORTINA 1101	1.322067785	Proj00027	Colusa	Tier 2	FALSE	TRUE	TRUE
VOLTA 1102CB	VOLTA 1102	3.337301116	Proj00028	Shasta	Tier 3	FALSE	TRUE	TRUE
18TH STREET 0401CB	18TH STREET 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
18TH STREET 0402CB	18TH STREET 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
21ST AVENUE 0401CB	21ST AVENUE 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
21ST AVENUE 04024239	21ST AVENUE 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
21ST AVENUE 0402CB	21ST AVENUE 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
21ST AVENUE 0403CB	21ST AVENUE 0403	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
6TH AVENUE 0401CB	6TH AVENUE 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
6TH AVENUE 0402CB	6TH AVENUE 0402	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
6TH AVENUE 0403CB	6TH AVENUE 0403	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
7TH STANDARD 2101CB	7TH STANDARD 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
7TH STANDARD 21021499	7TH STANDARD 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
7TH STANDARD 210281004	7TH STANDARD 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
7TH STANDARD 2102CB	7TH STANDARD 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
7TH STANDARD 21031381	7TH STANDARD 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
7TH STANDARD 2103250354	7TH STANDARD 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
7TH STANDARD 210348188	7TH STANDARD 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
7TH STANDARD 2103CB	7TH STANDARD 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
7TH STANDARD 2104CB	7TH STANDARD 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
8TH AVENUE 0401CB	8TH AVENUE 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
ACTON 0401683338	ACTON 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
ACTON 0401CB	ACTON 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
ACTON 0402CB	ACTON 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1101CB	AIRWAYS 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1102CB	AIRWAYS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1102R2664	AIRWAYS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 110365600	AIRWAYS 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1103CB	AIRWAYS 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1103R2030	AIRWAYS 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1104CB	AIRWAYS 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1105439526	AIRWAYS 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1105CB	AIRWAYS 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 110629609	AIRWAYS 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1106CB	AIRWAYS 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1107671922	AIRWAYS 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1107752346	AIRWAYS 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1107CB	AIRWAYS 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1107R1250	AIRWAYS 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1107R1426	AIRWAYS 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 110854868	AIRWAYS 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1108576040	AIRWAYS 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 110877764	AIRWAYS 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 110894718	AIRWAYS 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
AIRWAYS 1108CB	AIRWAYS 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ALHAMBRA 1101CB	ALHAMBRA 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ALHAMBRA 110213333	ALHAMBRA 1102	0.017427892		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ALHAMBRA 110281034	ALHAMBRA 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ALHAMBRA 1102CB	ALHAMBRA 1102	0.109359049		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ALHAMBRA 1105295792	ALHAMBRA 1105	2.886793855		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ALHAMBRA 110581514	ALHAMBRA 1105	0.074218134		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ALHAMBRA 110582622	ALHAMBRA 1105	25.49176692		Contra Costa	Tier 3	FALSE	TRUE	TRUE
ALHAMBRA 11058302	ALHAMBRA 1105	8.114811592		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ALHAMBRA 110595016	ALHAMBRA 1105	0.676751072		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ALHAMBRA 1105CB	ALHAMBRA 1105	0.566872268		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ALLEGHANY 1101183068	ALLEGHANY 1101	3.368695862		Sierra	Tier 2	FALSE	TRUE	TRUE
ALLEGHANY 1101804	ALLEGHANY 1101	18.47068171		Sierra	Tier 3	FALSE	TRUE	TRUE
ALLEGHANY 1101806	ALLEGHANY 1101	11.27923201		Sierra	Tier 3	FALSE	TRUE	TRUE
ALLEGHANY 1101808	ALLEGHANY 1101	6.177267723		Sierra	Tier 3	FALSE	TRUE	TRUE
ALLEGHANY 1101978	ALLEGHANY 1101	29.29617964		Sierra	Tier 2	FALSE	TRUE	FALSE
ALLEGHANY 1101CB	ALLEGHANY 1101	4.302165417		Sierra	Tier 3	FALSE	TRUE	TRUE
ALLEGHANY 1101DC 1101/2	ALLEGHANY 1101	0.020333347		Sierra	Tier 3	FALSE	TRUE	TRUE
ALLEGHANY 1101SC 1101/2	ALLEGHANY 1101	0.017838227		Sierra	Tier 2	FALSE	TRUE	TRUE
ALLEGHANY 1101VR816	ALLEGHANY 1101	4.083337264		Sierra	Tier 3	FALSE	TRUE	TRUE
ALLEGHANY 1102CB	ALLEGHANY 1102	17.67666245		Nevada	Tier 3	FALSE	TRUE	TRUE
ALLEGHANY 1102WC 1101/2	ALLEGHANY 1102	0.014691781		Nevada	Tier 3	FALSE	TRUE	TRUE
ALMADEN 1101CB	ALMADEN 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALMADEN 110211827	ALMADEN 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALMADEN 1102685706	ALMADEN 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE

Workpaper 032
Pacific Gas and Electric Company
Electrical Undergrounding Program
Circuit Segment List
(Continued)

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
ALMADEN 1102722120	ALMADEN 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALMADEN 1102743078	ALMADEN 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALMADEN 1102815266	ALMADEN 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALMADEN 1102CB	ALMADEN 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALMADEN 1102XR216	ALMADEN 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALMADEN 1102XR278	ALMADEN 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALMADEN 1110CB	ALMADEN 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALMADEN 1110XR408	ALMADEN 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALMADEN 111149936	ALMADEN 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALMADEN 111149970	ALMADEN 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALMADEN 1111CB	ALMADEN 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALMADEN 1111XR120	ALMADEN 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 11038030	ALPAUGH 1103	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 11038900	ALPAUGH 1103	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 110396038	ALPAUGH 1103	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 110398006	ALPAUGH 1103	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 1103CB	ALPAUGH 1103	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 110437392	ALPAUGH 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 11048080	ALPAUGH 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 11048220	ALPAUGH 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 11048819F	ALPAUGH 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 110499506	ALPAUGH 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 1104CB	ALPAUGH 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 1104R8190	ALPAUGH 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 110636528	ALPAUGH 1106	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 11068470	ALPAUGH 1106	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPAUGH 1106CB	ALPAUGH 1106	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ALPINE 1101CB	ALPINE 1101	0.87372329		Alpine	Non-HFTD	FALSE	FALSE	FALSE
ALPINE 1102CB	ALPINE 1102	0		Alpine	Non-HFTD	FALSE	FALSE	FALSE
ALTO 11201214	ALTO 1120	3.391929436		Marin	Tier 2	FALSE	TRUE	TRUE
ALTO 1120500	ALTO 1120	0.191410281		Marin	Tier 2	FALSE	TRUE	TRUE
ALTO 112081716	ALTO 1120	0.252742907		Marin	Tier 2	FALSE	TRUE	FALSE
ALTO 112087204	ALTO 1120	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
ALTO 112088190	ALTO 1120	0.059208114		Marin	Tier 2	FALSE	TRUE	TRUE
ALTO 1120CB	ALTO 1120	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
ALTO 1121508	ALTO 1121	0.343183521		Marin	Non-HFTD	FALSE	FALSE	FALSE
ALTO 112191428	ALTO 1121	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
ALTO 1121CB	ALTO 1121	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
ALTO 11221212	ALTO 1122	1.913837946		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 1122591122	ALTO 1122	0.455956313		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 112265474	ALTO 1122	2.202102192		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 112278672	ALTO 1122	3.625743447		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 1122CB	ALTO 1122	1.987886482		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 11231222	ALTO 1123	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
ALTO 112332448	ALTO 1123	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
ALTO 1123CB	ALTO 1123	0.468025437		Marin	Tier 2	FALSE	TRUE	TRUE
ALTO 1124207690	ALTO 1124	0.521179948		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 1124246034	ALTO 1124	0.085433212		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 11243121	ALTO 1124	2.719059209		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 11243745	ALTO 1124	4.487695557		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 1124428	ALTO 1124	0.570927174		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 1124432	ALTO 1124	7.704544455		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 1124635972	ALTO 1124	0.878794253		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 1124703432	ALTO 1124	0.630412785		Marin	Tier 3	FALSE	TRUE	FALSE
ALTO 1124810594	ALTO 1124	0.53094596		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 1124870444	ALTO 1124	2.939400365		Marin	Tier 3	FALSE	TRUE	FALSE
ALTO 1124CB	ALTO 1124	0.241668015		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 11251158	ALTO 1125	0.191112368		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 11251226	ALTO 1125	7.462625201		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 11251256	ALTO 1125	7.41303116		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 1125296476	ALTO 1125	0.585217842		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 1125510	ALTO 1125	7.347723004		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 1125530664	ALTO 1125	2.14764509		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 11256405	ALTO 1125	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
ALTO 1125902	ALTO 1125	12.17307171		Marin	Tier 3	FALSE	TRUE	TRUE
ALTO 1125CB	ALTO 1125	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
AMES 1101CB	AMES 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
AMES 1102CB	AMES 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
AMES 1102LM04	AMES 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
ANDERSON 11011390	ANDERSON 1101	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
ANDERSON 11011752	ANDERSON 1101	3.188588362		Shasta	Tier 2	FALSE	TRUE	TRUE
ANDERSON 1101337668	ANDERSON 1101	0.300734386		Shasta	Tier 2	FALSE	TRUE	TRUE
ANDERSON 1101514412	ANDERSON 1101	0.182920415		Shasta	Tier 2	FALSE	TRUE	TRUE
ANDERSON 1101583708	ANDERSON 1101	0.544072789		Shasta	Tier 2	FALSE	TRUE	TRUE
ANDERSON 1101810804	ANDERSON 1101	5.147212519		Shasta	Tier 2	FALSE	TRUE	TRUE
ANDERSON 1101909424	ANDERSON 1101	0.399116261		Shasta	Tier 2	FALSE	TRUE	TRUE
ANDERSON 1101CB	ANDERSON 1101	1.272569098		Shasta	Tier 2	TRUE	TRUE	TRUE
ANDERSON 11029792	ANDERSON 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
ANDERSON 110299392	ANDERSON 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
ANDERSON 1102CB	ANDERSON 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
ANDERSON 11031600	ANDERSON 1103	3.307642051		Shasta	Tier 2	FALSE	TRUE	TRUE
ANDERSON 1103193378	ANDERSON 1103	1.919734666		Shasta	Tier 2	FALSE	TRUE	TRUE
ANDERSON 1103226050	ANDERSON 1103	1.93417998		Shasta	Tier 2	FALSE	TRUE	TRUE
ANDERSON 1103721690	ANDERSON 1103	0.009610951		Shasta	Tier 2	FALSE	TRUE	TRUE
ANDERSON 1103CB	ANDERSON 1103	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
ANGIOLA 110241516	ANGIOLA 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
ANGIOLA 11028280	ANGIOLA 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
ANGIOLA 1102CB	ANGIOLA 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
ANGIOLA 11038123F	ANGIOLA 1103	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
ANGIOLA 11038140	ANGIOLA 1103	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
ANGIOLA 11038530	ANGIOLA 1103	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ANGIOLA 11038680	ANGIOLA 1103	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
ANGIOLA 1103CB	ANGIOLA 1103	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
ANGIOLA 110457276	ANGIOLA 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
ANGIOLA 1104CB	ANGIOLA 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
ANITA 110137724	ANITA 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ANITA 110153616	ANITA 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ANITA 110166258	ANITA 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ANITA 1101CB	ANITA 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ANITA 11022088	ANITA 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ANITA 1102CB	ANITA 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
ANITA 11052572	ANITA 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ANITA 1105CB	ANITA 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ANITA 11062074	ANITA 1106	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ANITA 11062418	ANITA 1106	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
ANITA 11062462	ANITA 1106	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ANITA 11062496	ANITA 1106	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ANITA 110648098	ANITA 1106	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ANITA 1106552724	ANITA 1106	0.47836761		Tehama	Tier 2	FALSE	TRUE	TRUE
ANITA 1106CB	ANITA 1106	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ANNAPOLIS 1101202158	ANNAPOLIS 1101	17.92716928		Sonoma	Tier 2	FALSE	TRUE	TRUE
ANNAPOLIS 1101528344	ANNAPOLIS 1101	26.79405026		Sonoma	Tier 2	FALSE	TRUE	TRUE
ANNAPOLIS 110176842	ANNAPOLIS 1101	5.52492755		Sonoma	Tier 2	FALSE	TRUE	TRUE
ANNAPOLIS 1101CB	ANNAPOLIS 1101	0.753135721		Sonoma	Tier 2	FALSE	TRUE	FALSE
ANTELOPE 11011631	ANTELOPE 1101	0		Kern	Non-HFTD	TRUE	TRUE	FALSE
ANTELOPE 11012656	ANTELOPE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ANTELOPE 1101318686	ANTELOPE 1101	0.918225609		Kern	Tier 2	FALSE	TRUE	TRUE
ANTELOPE 11013609	ANTELOPE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ANTELOPE 1101CB	ANTELOPE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ANTELOPE 1102CB	ANTELOPE 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ANTLER 11011376	ANTLER 1101	9.1828785		Shasta	Tier 2	TRUE	TRUE	TRUE
ANTLER 11011378	ANTLER 1101	24.20860343		Shasta	Tier 3	FALSE	TRUE	TRUE
ANTLER 11011384	ANTLER 1101	4.197137997		Shasta	Tier 2	FALSE	TRUE	TRUE
ANTLER 11011520	ANTLER 1101	3.404902324		Shasta	Tier 2	FALSE	TRUE	TRUE
ANTLER 11011612	ANTLER 1101	7.312932062		Shasta	Tier 3	TRUE	TRUE	TRUE
ANTLER 1101484276	ANTLER 1101	5.545126776		Shasta	Tier 2	FALSE	TRUE	TRUE
ANTLER 1101718316	ANTLER 1101	4.663150223		Shasta	Tier 2	FALSE	TRUE	TRUE
ANTLER 1101CB	ANTLER 1101	1.592308197		Shasta	Tier 2	FALSE	TRUE	TRUE
APPLE HILL 110313312	APPLE HILL 1103	11.9062948		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 11038412	APPLE HILL 1103	19.64114346		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 1103CB	APPLE HILL 1103	18.35958513		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 110412832	APPLE HILL 1104	16.16851493		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 110412842	APPLE HILL 1104	11.23667733		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 110413512	APPLE HILL 1104	27.72085205		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 1104236062	APPLE HILL 1104	4.239843574		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 1104275024	APPLE HILL 1104	1.770293643		El Dorado	Tier 2	FALSE	TRUE	FALSE
APPLE HILL 1104814656	APPLE HILL 1104	0.017476181		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 110497086	APPLE HILL 1104	25.56648423		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 1104CB	APPLE HILL 1104	4.083101647		El Dorado	Tier 2	FALSE	TRUE	TRUE
APPLE HILL 21021532	APPLE HILL 2102	37.8123663		El Dorado	Tier 2	FALSE	TRUE	TRUE
APPLE HILL 2102186912	APPLE HILL 2102	58.05144574		El Dorado	Tier 2	FALSE	TRUE	TRUE
APPLE HILL 210239544	APPLE HILL 2102	19.23516384		El Dorado	Tier 3	TRUE	TRUE	TRUE
APPLE HILL 210251792	APPLE HILL 2102	9.262226352		El Dorado	Tier 2	FALSE	TRUE	TRUE
APPLE HILL 21026552	APPLE HILL 2102	12.0410801		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 21027502	APPLE HILL 2102	22.85376367		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 210277546	APPLE HILL 2102	42.3474585		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 2102836878	APPLE HILL 2102	40.86240421		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 21028372	APPLE HILL 2102	56.2330002		El Dorado	Tier 3	TRUE	TRUE	TRUE
APPLE HILL 210289934	APPLE HILL 2102	5.549506955		El Dorado	Tier 2	FALSE	TRUE	TRUE
APPLE HILL 21029722	APPLE HILL 2102	38.21099376		El Dorado	Tier 3	TRUE	TRUE	TRUE
APPLE HILL 210297982	APPLE HILL 2102	9.694584452		El Dorado	Tier 3	FALSE	TRUE	TRUE
APPLE HILL 2102CB	APPLE HILL 2102	0.063133079		El Dorado	Tier 2	FALSE	TRUE	TRUE
ARANA 0401CB	ARANA 0401	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
ARANA 0402CB	ARANA 0402	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 110130376	ARBUCKLE 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 11013070	ARBUCKLE 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 110134756	ARBUCKLE 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 1101932352	ARBUCKLE 1101	0.4423411		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 110194064	ARBUCKLE 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 110195678	ARBUCKLE 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 1101CB	ARBUCKLE 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 1102247832	ARBUCKLE 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 11023014	ARBUCKLE 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 11023016	ARBUCKLE 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 110237526	ARBUCKLE 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 110247648	ARBUCKLE 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 1102CB	ARBUCKLE 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 1103CB	ARBUCKLE 1103	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 110430012	ARBUCKLE 1104	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 11044508	ARBUCKLE 1104	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 110447282	ARBUCKLE 1104	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 1104499738	ARBUCKLE 1104	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 1104656592	ARBUCKLE 1104	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 1104669720	ARBUCKLE 1104	2.997786288		Colusa	Tier 2	FALSE	TRUE	TRUE
ARBUCKLE 110481378	ARBUCKLE 1104	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 110494886	ARBUCKLE 1104	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 1104969486	ARBUCKLE 1104	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARBUCKLE 1104CB	ARBUCKLE 1104	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 110538786	ARCATA 1105	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 110556120	ARCATA 1105	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 11056544	ARCATA 1105	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 11057580	ARCATA 1105	0		Humboldt	Non-HFTD	TRUE	TRUE	FALSE
ARCATA 110589784	ARCATA 1105	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 1105CB	ARCATA 1105	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 110658538	ARCATA 1106	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 11066552	ARCATA 1106	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 11066554	ARCATA 1106	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 1106CB	ARCATA 1106	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 11211206	ARCATA 1121	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 11216004	ARCATA 1121	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 1121716954	ARCATA 1121	6.84372962		Humboldt	Tier 2	FALSE	TRUE	FALSE
ARCATA 1121CB	ARCATA 1121	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 11220664	ARCATA 1122	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 1122328150	ARCATA 1122	4.898300968		Humboldt	Tier 2	FALSE	TRUE	FALSE
ARCATA 112233060	ARCATA 1122	0.475789079		Humboldt	Tier 2	FALSE	TRUE	TRUE
ARCATA 112233062	ARCATA 1122	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 11225384	ARCATA 1122	15.21583905		Humboldt	Tier 2	FALSE	TRUE	FALSE
ARCATA 112293912	ARCATA 1122	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 1122CB	ARCATA 1122	0		Humboldt	Non-HFTD	TRUE	TRUE	FALSE
ARCATA 1123CB	ARCATA 1123	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARCATA 1124CB	ARCATA 1124	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ARLINGTON 0401404226	ARLINGTON 0401	0.938559243		Alameda	Tier 2	FALSE	TRUE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
ARLINGTON 0401CB	ARLINGTON 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
ARVIN 110115909	ARVIN 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ARVIN 110153388	ARVIN 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ARVIN 110154484	ARVIN 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ARVIN 110169618	ARVIN 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ARVIN 110194892	ARVIN 1101	0.096659392		Kern	Tier 2	FALSE	TRUE	TRUE
ARVIN 1101CB	ARVIN 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ARVIN 110235412	ARVIN 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ARVIN 1102CB	ARVIN 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ARVIN 1103CB	ARVIN 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1102238442	ASHLAN AVE 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1102CB	ASHLAN AVE 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1103CB	ASHLAN AVE 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1104CB	ASHLAN AVE 1104	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
ASHLAN AVE 1104D10406	ASHLAN AVE 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1104R3310	ASHLAN AVE 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 110685038	ASHLAN AVE 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1106965866	ASHLAN AVE 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1106CB	ASHLAN AVE 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1106R4494	ASHLAN AVE 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1107CB	ASHLAN AVE 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1108CB	ASHLAN AVE 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1108R3320	ASHLAN AVE 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1108R3340	ASHLAN AVE 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 110985686	ASHLAN AVE 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1109CB	ASHLAN AVE 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1109R1650	ASHLAN AVE 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 111189578	ASHLAN AVE 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 111199204	ASHLAN AVE 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1111CB	ASHLAN AVE 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1112230054	ASHLAN AVE 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 111266668	ASHLAN AVE 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 111276862	ASHLAN AVE 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 111277320	ASHLAN AVE 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 111299838	ASHLAN AVE 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1112CB	ASHLAN AVE 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1113313704	ASHLAN AVE 1113	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1113635386	ASHLAN AVE 1113	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1113CB	ASHLAN AVE 1113	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1113R2990	ASHLAN AVE 1113	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 111454300	ASHLAN AVE 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1114CB	ASHLAN AVE 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1116CB	ASHLAN AVE 1116	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
ASHLAN AVE 1116D13085	ASHLAN AVE 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 1116R3330	ASHLAN AVE 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 2101CB	ASHLAN AVE 2101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 210536538	ASHLAN AVE 2105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 210572920	ASHLAN AVE 2105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 2105CB	ASHLAN AVE 2105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 2110CB	ASHLAN AVE 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 2110R3090	ASHLAN AVE 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 2115CB	ASHLAN AVE 2115	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 2117CB	ASHLAN AVE 2117	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 2117R1100	ASHLAN AVE 2117	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 211832478	ASHLAN AVE 2118	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 2118CB	ASHLAN AVE 2118	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 2118R1520	ASHLAN AVE 2118	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 211931576	ASHLAN AVE 2119	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 2119920229	ASHLAN AVE 2119	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 2119CB	ASHLAN AVE 2119	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 2119D8229	ASHLAN AVE 2119	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ASHLAN AVE 2119S60	ASHLAN AVE 2119	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ATASCADERO 1101747522	ATASCADERO 1101	0.330618521		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
ATASCADERO 1101A02	ATASCADERO 1101	25.31311516		San Luis Obispo	Tier 3	FALSE	TRUE	FALSE
ATASCADERO 1101A22	ATASCADERO 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
ATASCADERO 1101A50	ATASCADERO 1101	20.08796952		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
ATASCADERO 1101CB	ATASCADERO 1101	0.034381343		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
ATASCADERO 1102A26	ATASCADERO 1102	0.909316504		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
ATASCADERO 1102A28	ATASCADERO 1102	1.681011075		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
ATASCADERO 1102A88	ATASCADERO 1102	0.824195574		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
ATASCADERO 1102CB	ATASCADERO 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
ATASCADERO 1103440856	ATASCADERO 1103	34.61055542		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
ATASCADERO 1103492068	ATASCADERO 1103	5.664289005		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
ATASCADERO 1103635958	ATASCADERO 1103	25.17913256		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
ATASCADERO 1103A06	ATASCADERO 1103	0.155544201		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
ATASCADERO 1103A16	ATASCADERO 1103	18.44761315		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
ATASCADERO 1103A18	ATASCADERO 1103	8.289178987		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
ATASCADERO 1103A46	ATASCADERO 1103	0.736063293		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
ATASCADERO 1103A80	ATASCADERO 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
ATASCADERO 1103CB	ATASCADERO 1103	0.037808928		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
ATWATER 110210680	ATWATER 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110211810	ATWATER 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110255354	ATWATER 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110255392	ATWATER 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110264566	ATWATER 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 11027160	ATWATER 1102	0		Merced	Non-HFTD	TRUE	TRUE	FALSE
ATWATER 11027180	ATWATER 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 1102839304	ATWATER 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 1102907060	ATWATER 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 11029650	ATWATER 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 1102CB	ATWATER 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110342444	ATWATER 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110375276	ATWATER 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 11039640	ATWATER 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 1103CB	ATWATER 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110411850	ATWATER 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110411860	ATWATER 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110411880	ATWATER 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 1104CB	ATWATER 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 1105524022	ATWATER 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110558858	ATWATER 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
ATWATER 11059720	ATWATER 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 1105CB	ATWATER 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110610450	ATWATER 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110610460	ATWATER 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110610470	ATWATER 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 1106269952	ATWATER 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 11064570	ATWATER 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 1106CB	ATWATER 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110710490	ATWATER 1107	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110710500	ATWATER 1107	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110710510	ATWATER 1107	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110710520	ATWATER 1107	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110710530	ATWATER 1107	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 11077080	ATWATER 1107	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 110790580	ATWATER 1107	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 1107CB	ATWATER 1107	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 11082460	ATWATER 1108	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 11087190	ATWATER 1108	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 11087210	ATWATER 1108	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ATWATER 1108CB	ATWATER 1108	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
AUBERRY 1101233716	AUBERRY 1101	3.33718502		Fresno	Tier 3	TRUE	TRUE	FALSE
AUBERRY 1101323028	AUBERRY 1101	5.021380452		Fresno	Tier 3	TRUE	TRUE	FALSE
AUBERRY 110137536	AUBERRY 1101	3.503953149		Fresno	Tier 3	TRUE	TRUE	TRUE
AUBERRY 110149122	AUBERRY 1101	11.38730463		Fresno	Tier 2	FALSE	TRUE	TRUE
AUBERRY 1101CB	AUBERRY 1101	18.29725241		Fresno	Tier 2	FALSE	TRUE	TRUE
AUBERRY 1101D4982	AUBERRY 1101	2.624418935		Fresno	Tier 3	TRUE	TRUE	FALSE
AUBERRY 1101R2578	AUBERRY 1101	45.40108577		Fresno	Tier 2	FALSE	TRUE	TRUE
AUBERRY 1101R2579	AUBERRY 1101	34.27880192		Fresno	Tier 2	FALSE	TRUE	TRUE
AUBERRY 1101R2838	AUBERRY 1101	20.52284728		Fresno	Tier 2	FALSE	TRUE	TRUE
AUBERRY 1101R2839	AUBERRY 1101	12.56271038		Fresno	Tier 2	FALSE	TRUE	TRUE
AUBERRY 1101R2845	AUBERRY 1101	17.94359581		Fresno	Tier 2	TRUE	TRUE	TRUE
AUBERRY 1101R314	AUBERRY 1101	44.25982712		Fresno	Tier 2	FALSE	TRUE	FALSE
AUBERRY 1101R324	AUBERRY 1101	24.18515753		Fresno	Tier 3	TRUE	TRUE	TRUE
AUBERRY 110237466	AUBERRY 1102	31.68109071		Fresno	Tier 2	FALSE	TRUE	FALSE
AUBERRY 1102CB	AUBERRY 1102	34.85215958		Fresno	Tier 2	FALSE	TRUE	TRUE
AUBERRY 1102R1013	AUBERRY 1102	12.39035716		Fresno	Tier 2	FALSE	TRUE	FALSE
AUBERRY 1102R2850	AUBERRY 1102	25.95706297		Fresno	Tier 2	FALSE	TRUE	FALSE
AUBERRY 1102R309	AUBERRY 1102	8.578331962		Fresno	Tier 2	FALSE	TRUE	FALSE
AUBERRY 1102R902	AUBERRY 1102	15.5949803		Fresno	Tier 2	FALSE	TRUE	FALSE
AUBURN 1101173014	AUBURN 1101	3.13889029		Placer	Tier 2	FALSE	TRUE	TRUE
AUBURN 1101CB	AUBURN 1101	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
AUBURN 1102251946	AUBURN 1102	1.2907911		Placer	Tier 2	FALSE	TRUE	TRUE
AUBURN 11028611	AUBURN 1102	1.801223197		Placer	Tier 2	FALSE	TRUE	TRUE
AUBURN 1102CB	AUBURN 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
AVENA 170113034	AVENA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
AVENA 170113538	AVENA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
AVENA 17012284	AVENA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
AVENA 1701427866	AVENA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
AVENA 1701550250	AVENA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
AVENA 1701CB	AVENA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
AVENA 1701CUS267772	AVENA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
AVENA 1701CUS7523	AVENA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
AVENA 170212876	AVENA 1702	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
AVENA 17025494	AVENA 1702	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
AVENA 1702CB	AVENA 1702	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
AVENAL 210144778	AVENAL 2101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
AVENAL 2101602496	AVENAL 2101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
AVENAL 21019070	AVENAL 2101	0.50685949		Kings	Non-HFTD	FALSE	FALSE	FALSE
AVENAL 210192528	AVENAL 2101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
AVENAL 21019810	AVENAL 2101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
AVENAL 2101CB	AVENAL 2101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
AVENAL 2102CB	AVENAL 2102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
AVENAL 2103CB	AVENAL 2103	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
BABEL 0401CB	BABEL 0401	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 1101648	BAHIA 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 1101CB	BAHIA 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 1102350336	BAHIA 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 110243940	BAHIA 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 11026757	BAHIA 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 1102946	BAHIA 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 1102CB	BAHIA 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 11031438	BAHIA 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 11031628	BAHIA 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 11033304	BAHIA 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 1103CB	BAHIA 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 1104624	BAHIA 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 110493908	BAHIA 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 1104997506	BAHIA 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 1104CB	BAHIA 1104	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
BAHIA 1104CUS8929	BAHIA 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 1105172836	BAHIA 1105	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
BAHIA 1105910176	BAHIA 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAHIA 1105CB	BAHIA 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
BAIR 1101CB	BAIR 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAIR 110395364	BAIR 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAIR 1103CB	BAIR 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAIR 1105CB	BAIR 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 1101CB	BAKERSFIELD 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 11023391	BAKERSFIELD 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 110249648	BAKERSFIELD 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 1102CB	BAKERSFIELD 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 1105752024	BAKERSFIELD 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 1105CB	BAKERSFIELD 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 11061912	BAKERSFIELD 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 11062723	BAKERSFIELD 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 11064568	BAKERSFIELD 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 1106CB	BAKERSFIELD 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 1107CB	BAKERSFIELD 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 11101841	BAKERSFIELD 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 1110CB	BAKERSFIELD 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 111413932	BAKERSFIELD 1114	0		Kern	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
BAKERSFIELD 11141505	BAKERSFIELD 1114	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 11144420	BAKERSFIELD 1114	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 1114CB	BAKERSFIELD 1114	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 1115CB	BAKERSFIELD 1115	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 11163742	BAKERSFIELD 1116	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 1116CB	BAKERSFIELD 1116	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 11183338	BAKERSFIELD 1118	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 1118CB	BAKERSFIELD 1118	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 210413017	BAKERSFIELD 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 21041574	BAKERSFIELD 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 21043326	BAKERSFIELD 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 210447676	BAKERSFIELD 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 21044770	BAKERSFIELD 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 2104CB	BAKERSFIELD 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 210616874	BAKERSFIELD 2106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 21063459	BAKERSFIELD 2106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 210637524	BAKERSFIELD 2106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 2106CB	BAKERSFIELD 2106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 210913002	BAKERSFIELD 2109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 210913182	BAKERSFIELD 2109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 21094129	BAKERSFIELD 2109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 2109530574	BAKERSFIELD 2109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 2109756272	BAKERSFIELD 2109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 210990726	BAKERSFIELD 2109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BAKERSFIELD 2109CB	BAKERSFIELD 2109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BALCH NO 1 1101105414	BALCH NO 1 1101	6.996383188		Fresno	Tier 2	TRUE	TRUE	TRUE
BALCH NO 1 1101406582	BALCH NO 1 1101	3.686860972		Fresno	Tier 2	TRUE	TRUE	TRUE
BALCH NO 1 1101CB	BALCH NO 1 1101	0.116563529		Fresno	Tier 2	FALSE	TRUE	TRUE
BALCH NO 1 1101R372	BALCH NO 1 1101	3.850508917		Fresno	Tier 2	TRUE	TRUE	TRUE
BALFOUR 1101227486	BALFOUR 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BALFOUR 1101547810	BALFOUR 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BALFOUR 1101611738	BALFOUR 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BALFOUR 1101744523	BALFOUR 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BALFOUR 1101CB	BALFOUR 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BANCROFT 0401CB	BANCROFT 0401	0.003413416		Alameda	Tier 2	FALSE	TRUE	TRUE
BANCROFT 0402CB	BANCROFT 0402	0.119101861		Alameda	Tier 2	FALSE	TRUE	TRUE
BANGOR 11011804	BANGOR 1101	31.54435544		Butte	Tier 2	TRUE	TRUE	TRUE
BANGOR 11011806	BANGOR 1101	3.850889763		Yuba	Tier 2	TRUE	TRUE	TRUE
BANGOR 11011958	BANGOR 1101	27.21948033		Yuba	Tier 2	TRUE	TRUE	TRUE
BANGOR 110131502	BANGOR 1101	11.64455416		Butte	Tier 2	TRUE	TRUE	TRUE
BANGOR 1101498380	BANGOR 1101	2.329062609		Yuba	Tier 2	FALSE	TRUE	FALSE
BANGOR 1101537672	BANGOR 1101	4.180599744		Yuba	Tier 2	TRUE	TRUE	FALSE
BANGOR 1101614048	BANGOR 1101	14.12308851		Butte	Tier 2	FALSE	TRUE	FALSE
BANGOR 1101626862	BANGOR 1101	11.278239		Yuba	Tier 3	FALSE	TRUE	TRUE
BANGOR 11017446	BANGOR 1101	43.77604337		Yuba	Tier 2	TRUE	TRUE	TRUE
BANGOR 110182350	BANGOR 1101	18.60368496		Yuba	Tier 2	TRUE	TRUE	FALSE
BANGOR 1101870548	BANGOR 1101	5.003212		Yuba	Tier 2	FALSE	TRUE	FALSE
BANGOR 1101CB	BANGOR 1101	16.97365938		Butte	Tier 2	TRUE	TRUE	TRUE
BANTA 110169196	BANTA 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
BANTA 110179924	BANTA 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
BANTA 1101CB	BANTA 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
BANTA 110211898	BANTA 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
BANTA 1102CB	BANTA 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
BANTA 110313928	BANTA 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
BANTA 1103248582	BANTA 1103	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
BANTA 1103406410	BANTA 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
BANTA 1103CB	BANTA 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
BARRETT 0401CB	BARRETT 0401	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
BARRETT 0402CB	BARRETT 0402	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
BARRY 1101CB	BARRY 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BARRY 1102CB	BARRY 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BARRY 11032020	BARRY 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BARRY 1103CB	BARRY 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1101899908	BARTON 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1101CB	BARTON 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1102373096	BARTON 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1102CB	BARTON 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 110449296	BARTON 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 110455534	BARTON 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1104CB	BARTON 1104	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
BARTON 1105167170	BARTON 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1105CB	BARTON 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1105R1080	BARTON 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1106CB	BARTON 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 110841140	BARTON 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1108CB	BARTON 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1108D5460	BARTON 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1108R3370	BARTON 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1108R3500	BARTON 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1109CB	BARTON 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1109R3140	BARTON 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 111094098	BARTON 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1110CB	BARTON 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1110D8927	BARTON 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1110D8931	BARTON 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1111CB	BARTON 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1111R1200	BARTON 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1112CB	BARTON 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1112R1370	BARTON 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1114CB	BARTON 1114	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
BARTON 111549016	BARTON 1115	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 111577150	BARTON 1115	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1115CB	BARTON 1115	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 111664447	BARTON 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BARTON 1116CB	BARTON 1116	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
BASALT 110138824	BASALT 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
BASALT 110175886	BASALT 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
BASALT 1101CB	BASALT 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
BASALT 1104CB	BASALT 1104	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
BASALT 1105CB	BASALT 1105	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
BASALT 11061781	BASALT 1106	0		Napa	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
BASALT 11062103	BASALT 1106	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
BASALT 1106267462	BASALT 1106	0.802709236		Napa	Tier 2	FALSE	TRUE	FALSE
BASALT 1106316302	BASALT 1106	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
BASALT 110635550	BASALT 1106	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
BASALT 11065030	BASALT 1106	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
BASALT 1106657038	BASALT 1106	1.211424387		Napa	Tier 2	TRUE	TRUE	TRUE
BASALT 1106724	BASALT 1106	0		Napa	Non-HFTD	TRUE	TRUE	FALSE
BASALT 1106783176	BASALT 1106	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
BASALT 1106CB	BASALT 1106	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
BASALT 1106CUS167	BASALT 1106	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 1102CB	BAY MEADOWS 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 110339664	BAY MEADOWS 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 110339666	BAY MEADOWS 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 1103CB	BAY MEADOWS 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 110411223	BAY MEADOWS 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 110439402	BAY MEADOWS 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 110447476	BAY MEADOWS 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 110448036	BAY MEADOWS 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 110468208	BAY MEADOWS 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 1104714234	BAY MEADOWS 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 11049072	BAY MEADOWS 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 11049124	BAY MEADOWS 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 1104CB	BAY MEADOWS 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 1105265162	BAY MEADOWS 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 110565187	BAY MEADOWS 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 1105CB	BAY MEADOWS 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 110633524	BAY MEADOWS 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 1106CB	BAY MEADOWS 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 110748112	BAY MEADOWS 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 1107CB	BAY MEADOWS 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 1108CB	BAY MEADOWS 1108	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 21013369	BAY MEADOWS 2101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 2101410526	BAY MEADOWS 2101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 21019100	BAY MEADOWS 2101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 2101912030	BAY MEADOWS 2101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 2101955062	BAY MEADOWS 2101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 2101CB	BAY MEADOWS 2101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 210248770	BAY MEADOWS 2102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 210257886	BAY MEADOWS 2102	3.950239294		San Mateo	Tier 2	FALSE	TRUE	TRUE
BAY MEADOWS 21029062	BAY MEADOWS 2102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 21029162	BAY MEADOWS 2102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAY MEADOWS 2102CB	BAY MEADOWS 2102	0.034299347		San Mateo	Tier 2	FALSE	TRUE	TRUE
BAY MEADOWS 2103CB	BAY MEADOWS 2103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BAYWOOD 1101CB	BAYWOOD 1101	3.374242881		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
BAYWOOD 1101V102	BAYWOOD 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
BEACH (Q) 0402CB	BEACH (Q) 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
BEAR VALLEY 210110000	BEAR VALLEY 2101	29.50089467		Mariposa	Tier 2	TRUE	TRUE	TRUE
BEAR VALLEY 210110019	BEAR VALLEY 2101	1.93295901		Mariposa	Tier 2	FALSE	TRUE	TRUE
BEAR VALLEY 21014160	BEAR VALLEY 2101	22.91823396		Mariposa	Tier 2	TRUE	TRUE	TRUE
BEAR VALLEY 21014500	BEAR VALLEY 2101	20.54614245		Mariposa	Tier 2	FALSE	TRUE	TRUE
BEAR VALLEY 210190550	BEAR VALLEY 2101	8.085217871		Mariposa	Tier 2	FALSE	TRUE	TRUE
BEAR VALLEY 2101CB	BEAR VALLEY 2101	18.11904526		Mariposa	Tier 2	TRUE	TRUE	TRUE
BEAR VALLEY 210513430	BEAR VALLEY 2105	12.79568941		Mariposa	Tier 3	FALSE	TRUE	TRUE
BEAR VALLEY 210521160	BEAR VALLEY 2105	22.9104841		Mariposa	Tier 3	FALSE	TRUE	TRUE
BEAR VALLEY 2105293732	BEAR VALLEY 2105	26.06342673		Mariposa	Tier 3	FALSE	TRUE	TRUE
BEAR VALLEY 210538882	BEAR VALLEY 2105	26.33773834		Tuolumne	Tier 2	FALSE	TRUE	FALSE
BEAR VALLEY 21054170	BEAR VALLEY 2105	9.320586751		Mariposa	Tier 2	TRUE	TRUE	TRUE
BEAR VALLEY 2105454432	BEAR VALLEY 2105	13.98399954		Mariposa	Tier 3	FALSE	TRUE	FALSE
BEAR VALLEY 210576694	BEAR VALLEY 2105	4.585105271		Mariposa	Tier 2	FALSE	TRUE	TRUE
BEAR VALLEY 2105916436	BEAR VALLEY 2105	17.15057178		Mariposa	Tier 2	TRUE	TRUE	FALSE
BEAR VALLEY 21059480	BEAR VALLEY 2105	12.34759629		Mariposa	Tier 2	TRUE	TRUE	TRUE
BEAR VALLEY 21059570	BEAR VALLEY 2105	7.970716568		Mariposa	Tier 2	FALSE	TRUE	TRUE
BEAR VALLEY 2105CB	BEAR VALLEY 2105	3.713252103		Mariposa	Tier 2	TRUE	TRUE	TRUE
BECK STREET 0401CB	BECK STREET 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BELL 11072400	BELL 1107	25.00151572		Placer	Tier 2	FALSE	TRUE	TRUE
BELL 110750172	BELL 1107	17.34724072		Placer	Tier 2	FALSE	TRUE	FALSE
BELL 1107643778	BELL 1107	0.098946574		Placer	Tier 2	FALSE	TRUE	FALSE
BELL 1107CB	BELL 1107	0.115723528		Placer	Tier 2	FALSE	TRUE	TRUE
BELL 1108127062	BELL 1108	2.819545389		Placer	Tier 2	FALSE	TRUE	TRUE
BELL 11082202	BELL 1108	19.15324167		Placer	Tier 2	FALSE	TRUE	TRUE
BELL 11082226	BELL 1108	13.74892896		Placer	Tier 2	FALSE	TRUE	TRUE
BELL 1108339792	BELL 1108	2.312040661		Placer	Tier 2	FALSE	TRUE	FALSE
BELL 1108351852	BELL 1108	7.501823032		Placer	Tier 2	FALSE	TRUE	FALSE
BELL 1108467470	BELL 1108	1.863545497		Placer	Tier 2	FALSE	TRUE	TRUE
BELL 1108533042	BELL 1108	6.79066789		Placer	Tier 2	FALSE	TRUE	TRUE
BELL 110880680	BELL 1108	0.51513119		Placer	Tier 2	FALSE	TRUE	FALSE
BELL 1108CB	BELL 1108	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
BELL 110950506	BELL 1109	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
BELL 110950520	BELL 1109	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
BELL 1109724884	BELL 1109	13.99821891		Placer	Tier 2	FALSE	TRUE	TRUE
BELL 1109CB	BELL 1109	0.02817326		Placer	Tier 2	FALSE	TRUE	TRUE
BELL 111050182	BELL 1110	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
BELL 111050522	BELL 1110	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
BELL 111056214	BELL 1110	0.157465923		Placer	Tier 2	FALSE	TRUE	TRUE
BELL 1110CB	BELL 1110	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 0401CB	BELLE HAVEN 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 0402CB	BELLE HAVEN 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 0403CB	BELLE HAVEN 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 0404CB	BELLE HAVEN 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 0405CB	BELLE HAVEN 0405	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 0406226075	BELLE HAVEN 0406	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 0406CB	BELLE HAVEN 0406	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 0407206272	BELLE HAVEN 0407	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 0407CB	BELLE HAVEN 0407	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 0408CB	BELLE HAVEN 0408	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 0409CB	BELLE HAVEN 0409	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 11018990	BELLE HAVEN 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 1101CB	BELLE HAVEN 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 1102CB	BELLE HAVEN 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 11038970	BELLE HAVEN 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 1103CB	BELLE HAVEN 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
BELLE HAVEN 11048966	BELLE HAVEN 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 1104CB	BELLE HAVEN 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 110538298	BELLE HAVEN 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 110538302	BELLE HAVEN 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 110580572	BELLE HAVEN 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 1105819370	BELLE HAVEN 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 11058964	BELLE HAVEN 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 11058978	BELLE HAVEN 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 1105CB	BELLE HAVEN 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 110611881	BELLE HAVEN 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 1106287588	BELLE HAVEN 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 11068916	BELLE HAVEN 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 11068988	BELLE HAVEN 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 11069150	BELLE HAVEN 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 1106CB	BELLE HAVEN 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLE HAVEN 1107CB	BELLE HAVEN 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 1102130	BELLEVUE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 1102182	BELLEVUE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 11022995	BELLEVUE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 110239024	BELLEVUE 1102	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
BELLEVUE 110239026	BELLEVUE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 110242164	BELLEVUE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 1102463316	BELLEVUE 1102	0.162836079		Sonoma	Tier 2	FALSE	TRUE	TRUE
BELLEVUE 110275956	BELLEVUE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 1102839	BELLEVUE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 110298544	BELLEVUE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 1102CB	BELLEVUE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 110423772	BELLEVUE 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 1104564	BELLEVUE 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 110485960	BELLEVUE 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 1104CB	BELLEVUE 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 2101335190	BELLEVUE 2101	2.966984308		Sonoma	Tier 3	TRUE	TRUE	TRUE
BELLEVUE 2101552	BELLEVUE 2101	7.214979139		Sonoma	Tier 3	TRUE	TRUE	TRUE
BELLEVUE 2101646	BELLEVUE 2101	7.715809278		Sonoma	Tier 3	TRUE	TRUE	TRUE
BELLEVUE 2101648	BELLEVUE 2101	0.31268399		Sonoma	Tier 2	TRUE	TRUE	TRUE
BELLEVUE 2101CB	BELLEVUE 2101	7.817204027		Sonoma	Tier 2	TRUE	TRUE	TRUE
BELLEVUE 2103388	BELLEVUE 2103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 210342412	BELLEVUE 2103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 2103940234	BELLEVUE 2103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 2103CB	BELLEVUE 2103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 2105316	BELLEVUE 2105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 2105CB	BELLEVUE 2105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 2107102360	BELLEVUE 2107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 2107500	BELLEVUE 2107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 21075092	BELLEVUE 2107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 2107656	BELLEVUE 2107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 21078146	BELLEVUE 2107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELLEVUE 2107CB	BELLEVUE 2107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 040153783	BELMONT 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 0401CB	BELMONT 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 0402CB	BELMONT 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 0403CB	BELMONT 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 0406CB	BELMONT 0406	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 110268446	BELMONT 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 110281412	BELMONT 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 11028918	BELMONT 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 1102CB	BELMONT 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 110345238	BELMONT 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 110347804	BELMONT 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 1103543076	BELMONT 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 11038956	BELMONT 1103	0.237244839		San Mateo	Tier 2	FALSE	TRUE	TRUE
BELMONT 11038958	BELMONT 1103	3.141068232		San Mateo	Tier 2	FALSE	TRUE	TRUE
BELMONT 1103CB	BELMONT 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 1104458906	BELMONT 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 1104CB	BELMONT 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 1105CB	BELMONT 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 1106872866	BELMONT 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 1106CB	BELMONT 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 1107CB	BELMONT 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 1109CB	BELMONT 1109	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 1110330790	BELMONT 1110	0.112180111		San Mateo	Tier 2	FALSE	TRUE	TRUE
BELMONT 111039182	BELMONT 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 11103975	BELMONT 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 11104845	BELMONT 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 11104946	BELMONT 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 1110522372	BELMONT 1110	0.475840201		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 11109088	BELMONT 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 11109090	BELMONT 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELMONT 1110CB	BELMONT 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BELRIDGE 1A 1101CB	BELRIDGE 1A 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BEN LOMOND 040116010	BEN LOMOND 0401	1.688226288		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BEN LOMOND 04015144	BEN LOMOND 0401	6.106846985		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BEN LOMOND 04015400	BEN LOMOND 0401	0.454018333		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BEN LOMOND 0401698634	BEN LOMOND 0401	7.063140624		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BEN LOMOND 0401CB	BEN LOMOND 0401	0.025126348		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BEN LOMOND 110196738	BEN LOMOND 1101	6.706366098		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BEN LOMOND 1101BL 1101	BEN LOMOND 1101	8.454972773		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BERESFORD 0401CB	BERESFORD 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BERESFORD 040249078	BERESFORD 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BERESFORD 0402CB	BERESFORD 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BERESFORD 0403435168	BERESFORD 0403	1.254230485		San Mateo	Tier 2	FALSE	TRUE	FALSE
BERESFORD 0403855954	BERESFORD 0403	4.13778746		San Mateo	Tier 2	FALSE	TRUE	TRUE
BERESFORD 04039154	BERESFORD 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BERESFORD 0403CB	BERESFORD 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BERESFORD 0404CB	BERESFORD 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 0401CB	BERKELEY F 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 0402502466	BERKELEY F 0402	0.101569634		Alameda	Tier 2	FALSE	TRUE	FALSE
BERKELEY F 0402CB	BERKELEY F 0402	0.036811796		Alameda	Tier 2	FALSE	TRUE	TRUE
BERKELEY F 0403CB	BERKELEY F 0403	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 0404CB	BERKELEY F 0404	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 0405CB	BERKELEY F 0405	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE

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Circuit Segment List
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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
BERKELEY F 0406CB	BERKELEY F 0406	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 0407CB	BERKELEY F 0407	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 0408CB	BERKELEY F 0408	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 0409CB	BERKELEY F 0409	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 0410CB	BERKELEY F 0410	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 0411CB	BERKELEY F 0411	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 1102BR156	BERKELEY F 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 1102CB	BERKELEY F 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 1103162952	BERKELEY F 1103	1.701813268		Alameda	Tier 3	FALSE	TRUE	TRUE
BERKELEY F 1103620294	BERKELEY F 1103	0.095548689		Alameda	Tier 3	FALSE	TRUE	TRUE
BERKELEY F 1103813976	BERKELEY F 1103	0.171006167		Alameda	Tier 3	FALSE	TRUE	FALSE
BERKELEY F 1103BR110	BERKELEY F 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 1103CB	BERKELEY F 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 1104517076	BERKELEY F 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 1104BR114	BERKELEY F 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 1104BR116	BERKELEY F 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 1104BR118	BERKELEY F 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 1104CB	BERKELEY F 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 1105189500	BERKELEY F 1105	0.633233815		Alameda	Tier 2	FALSE	TRUE	FALSE
BERKELEY F 1105BR100	BERKELEY F 1105	0.10068683		Alameda	Tier 2	FALSE	TRUE	TRUE
BERKELEY F 1105BR106	BERKELEY F 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 1105BR166	BERKELEY F 1105	0.030169084		Alameda	Tier 2	FALSE	TRUE	FALSE
BERKELEY F 1105BR168	BERKELEY F 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY F 1105CB	BERKELEY F 1105	1.012637714		Alameda	Tier 2	FALSE	TRUE	TRUE
BERKELEY T 0401302696	BERKELEY T 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY T 0401CB	BERKELEY T 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY T 0402CB	BERKELEY T 0402	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY T 0403566022	BERKELEY T 0403	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY T 0403CB	BERKELEY T 0403	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERKELEY T 0404CB	BERKELEY T 0404	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
BERRENDA A 1101CB	BERRENDA A 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BERRENDA C 0401CB	BERRENDA C 0401	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BETHEL BANK 0401CB	BETHEL BANK 0401	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BIG BASIN 110110720	BIG BASIN 1101	2.661470755		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 1101124854	BIG BASIN 1101	0.020075275		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BIG BASIN 110112838	BIG BASIN 1101	4.279473878		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 1101136050	BIG BASIN 1101	1.748076198		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BIG BASIN 1101391980	BIG BASIN 1101	5.05628673		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BIG BASIN 1101393582	BIG BASIN 1101	5.59987503		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BIG BASIN 1101595388	BIG BASIN 1101	3.06846773		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 1101654386	BIG BASIN 1101	9.543728033		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 110165444	BIG BASIN 1101	0.466783909		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BIG BASIN 110169550	BIG BASIN 1101	12.47372387		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BIG BASIN 110195690	BIG BASIN 1101	3.873634829		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 1101CB	BIG BASIN 1101	6.399085861		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 110210254	BIG BASIN 1102	2.143661526		Santa Cruz	Tier 3	TRUE	TRUE	FALSE
BIG BASIN 110212124	BIG BASIN 1102	4.455744255		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 110212758	BIG BASIN 1102	5.835301923		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 110212992	BIG BASIN 1102	15.03598347		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 11022253	BIG BASIN 1102	0.653019758		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 1102243760	BIG BASIN 1102	5.388305272		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 1102307348	BIG BASIN 1102	12.177149		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 1102351054	BIG BASIN 1102	1.627166136		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 11025066	BIG BASIN 1102	6.218238711		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 110276752	BIG BASIN 1102	2.693199294		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 11028403	BIG BASIN 1102	5.531691777		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BIG BASIN 110296986	BIG BASIN 1102	5.084794067		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BASIN 1102CB	BIG BASIN 1102	0.824695391		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BIG BEND 1101180398	BIG BEND 1101	5.345110185		Butte	Tier 3	TRUE	TRUE	TRUE
BIG BEND 1101641808	BIG BEND 1101	28.57902615		Butte	Tier 3	TRUE	TRUE	TRUE
BIG BEND 1101CB	BIG BEND 1101	23.04486071		Butte	Tier 3	TRUE	TRUE	TRUE
BIG BEND 1102884340	BIG BEND 1102	1.05193057		Butte	Tier 3	TRUE	TRUE	TRUE
BIG BEND 1102CB	BIG BEND 1102	16.86840177		Butte	Tier 3	TRUE	TRUE	TRUE
BIG MEADOWS 21012016	BIG MEADOWS 2101	0.078732119		Plumas	Tier 2	FALSE	TRUE	TRUE
BIG MEADOWS 21012246	BIG MEADOWS 2101	1.808311273		Plumas	Tier 2	TRUE	TRUE	FALSE
BIG MEADOWS 21012248	BIG MEADOWS 2101	9.095468672		Plumas	Tier 2	TRUE	TRUE	TRUE
BIG MEADOWS 21012260	BIG MEADOWS 2101	9.617347652		Plumas	Tier 2	TRUE	TRUE	TRUE
BIG MEADOWS 21012474	BIG MEADOWS 2101	8.213638139		Plumas	Tier 2	TRUE	TRUE	FALSE
BIG MEADOWS 21012476	BIG MEADOWS 2101	7.866566225		Plumas	Tier 2	TRUE	TRUE	TRUE
BIG MEADOWS 21012510	BIG MEADOWS 2101	8.595203193		Plumas	Tier 2	TRUE	TRUE	FALSE
BIG MEADOWS 21012586	BIG MEADOWS 2101	5.464491798		Plumas	Tier 2	TRUE	TRUE	FALSE
BIG MEADOWS 2101CB	BIG MEADOWS 2101	2.319069136		Plumas	Tier 2	TRUE	TRUE	TRUE
BIG RIVER 11011052	BIG RIVER 1101	2.656909264		Mendocino	Tier 2	FALSE	TRUE	FALSE
BIG RIVER 11011286	BIG RIVER 1101	4.167523099		Mendocino	Tier 2	FALSE	TRUE	TRUE
BIG RIVER 11012183	BIG RIVER 1101	2.487113509		Mendocino	Tier 2	FALSE	TRUE	FALSE
BIG RIVER 1101262924	BIG RIVER 1101	1.776548015		Mendocino	Tier 2	FALSE	TRUE	TRUE
BIG RIVER 11012989	BIG RIVER 1101	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
BIG RIVER 11013002	BIG RIVER 1101	7.053507455		Mendocino	Tier 2	FALSE	TRUE	FALSE
BIG RIVER 110155402	BIG RIVER 1101	2.179861968		Mendocino	Tier 2	FALSE	TRUE	TRUE
BIG RIVER 110169032	BIG RIVER 1101	8.564269436		Mendocino	Tier 2	FALSE	TRUE	FALSE
BIG RIVER 110179628	BIG RIVER 1101	14.68576026		Mendocino	Tier 2	FALSE	TRUE	FALSE
BIG RIVER 1101952	BIG RIVER 1101	16.81839698		Mendocino	Tier 2	FALSE	TRUE	FALSE
BIG RIVER 1101954	BIG RIVER 1101	9.574440213		Mendocino	Tier 2	FALSE	TRUE	FALSE
BIG RIVER 1101CB	BIG RIVER 1101	0.029924724		Mendocino	Tier 2	FALSE	TRUE	TRUE
BIOLA 11016270	BIOLA 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 11016280	BIOLA 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 110196864	BIOLA 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 1101CB	BIOLA 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 1101D2029	BIOLA 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 1101R1129	BIOLA 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 1101R1912	BIOLA 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 11026170	BIOLA 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 1102622058	BIOLA 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 1102CB	BIOLA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 110397862	BIOLA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 1103CB	BIOLA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 1103R2666	BIOLA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 1103R2800	BIOLA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 110437336	BIOLA 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 110489728	BIOLA 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BIOLA 1104CB	BIOLA 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE

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Pacific Gas and Electric Company
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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
BIOLA 1104R1913	BIOLA 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BLACKWELL 11023241	BLACKWELL 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BLACKWELL 11024745	BLACKWELL 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BLACKWELL 1102CB	BLACKWELL 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BLACKWELL 21011104	BLACKWELL 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BLACKWELL 21013258	BLACKWELL 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BLACKWELL 2101434222	BLACKWELL 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BLACKWELL 2101CB	BLACKWELL 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
BLUE LAKE 11013578	BLUE LAKE 1101	0.305267424		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
BLUE LAKE 1101CB	BLUE LAKE 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
BLUE LAKE 11021024	BLUE LAKE 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
BLUE LAKE 11024624	BLUE LAKE 1102	0		Humboldt	Non-HFTD	TRUE	TRUE	FALSE
BLUE LAKE 110256630	BLUE LAKE 1102	0.016619905		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
BLUE LAKE 110266454	BLUE LAKE 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
BLUE LAKE 110294240	BLUE LAKE 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
BLUE LAKE 1102CB	BLUE LAKE 1102	0		Humboldt	Non-HFTD	TRUE	TRUE	FALSE
BOGARD 1101CB	BOGARD 1101	0.514503697		Lassen	Tier 2	FALSE	TRUE	FALSE
BOGUE 11027020	BOGUE 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 11027100	BOGUE 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 1102CB	BOGUE 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 11037012	BOGUE 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 1103CB	BOGUE 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 11041382	BOGUE 1104	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 11046134	BOGUE 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 1104CB	BOGUE 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 11057014	BOGUE 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 1105CB	BOGUE 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 11062704	BOGUE 1106	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 11067398	BOGUE 1106	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 11067408	BOGUE 1106	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 110696114	BOGUE 1106	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 1106CB	BOGUE 1106	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 11071386	BOGUE 1107	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 110751666	BOGUE 1107	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 1107CB	BOGUE 1107	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOGUE 1108CB	BOGUE 1108	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
BOLINAS 11011064	BOLINAS 1101	0.434647286		Marin	Tier 2	FALSE	TRUE	TRUE
BOLINAS 11011232	BOLINAS 1101	2.224219028		Marin	Tier 2	FALSE	TRUE	TRUE
BOLINAS 11011236	BOLINAS 1101	3.006935768		Marin	Tier 2	FALSE	TRUE	TRUE
BOLINAS 110137034	BOLINAS 1101	4.56385551		Marin	Tier 3	FALSE	TRUE	FALSE
BOLINAS 110146152	BOLINAS 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
BOLINAS 1101504	BOLINAS 1101	6.652261486		Marin	Tier 3	FALSE	TRUE	TRUE
BOLINAS 1101528	BOLINAS 1101	1.643873198		Marin	Tier 3	FALSE	TRUE	TRUE
BOLINAS 1101530	BOLINAS 1101	10.93861382		Marin	Tier 3	FALSE	TRUE	TRUE
BOLINAS 1101806	BOLINAS 1101	3.089015002		Marin	Tier 3	FALSE	TRUE	FALSE
BOLINAS 1101CB	BOLINAS 1101	2.101453062		Marin	Tier 3	FALSE	TRUE	TRUE
BONITA 11015740	BONITA 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BONITA 11015940	BONITA 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BONITA 1101CB	BONITA 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BONITA 110211540	BONITA 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BONITA 110211870	BONITA 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BONITA 110238524	BONITA 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BONITA 1102909186	BONITA 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BONITA 1102CB	BONITA 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BONITA 11036020	BONITA 1103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BONITA 1103974448	BONITA 1103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BONITA 1103CB	BONITA 1103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BONNIE NOOK 1101CB	BONNIE NOOK 1101	14.44360748		Placer	Tier 3	FALSE	TRUE	TRUE
BONNIE NOOK 1102542186	BONNIE NOOK 1102	7.680442178		Placer	Tier 3	FALSE	TRUE	TRUE
BONNIE NOOK 1102CB	BONNIE NOOK 1102	26.30701558		Placer	Tier 3	FALSE	TRUE	TRUE
BONNIE NOOK 1103CB	BONNIE NOOK 1103	0.333269898		Placer	Tier 3	FALSE	TRUE	FALSE
BORDEN 110110560	BORDEN 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 110121130	BORDEN 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 1101349432	BORDEN 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 11016079	BORDEN 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 110190050	BORDEN 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 110190080	BORDEN 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 1101CB	BORDEN 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 110213186	BORDEN 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 1102331284	BORDEN 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 110238670	BORDEN 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 110285930	BORDEN 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 110290040	BORDEN 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 1102CB	BORDEN 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 110349354	BORDEN 1103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 11035850	BORDEN 1103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 110381648	BORDEN 1103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 11039820	BORDEN 1103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 1103997268	BORDEN 1103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORDEN 1103CB	BORDEN 1103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
BORONDA 11013084	BORONDA 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BORONDA 110136966	BORONDA 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BORONDA 1101CB	BORONDA 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BORONDA 1102CB	BORONDA 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BOSWELL 1101CB	BOSWELL 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 1101337559	BOWLES 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 110136522	BOWLES 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 11016210	BOWLES 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 11016220	BOWLES 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 11016909F	BOWLES 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 1101CB	BOWLES 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 11026530	BOWLES 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 1102CB	BOWLES 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 11035306F	BOWLES 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 1103CB	BOWLES 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 1103R1470	BOWLES 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 11045030	BOWLES 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 11046190	BOWLES 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 110494802	BOWLES 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BOWLES 1104CB	BOWLES 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 21046142	BRENTWOOD 2104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE

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Circuit Segment List
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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
BRENTWOOD 2104CB	BRENTWOOD 2104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 21051494	BRENTWOOD 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 210519062	BRENTWOOD 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2105219013	BRENTWOOD 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2105500796	BRENTWOOD 2105	1.271068235		Contra Costa	Tier 2	FALSE	TRUE	TRUE
BRENTWOOD 2105502672	BRENTWOOD 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 210556344	BRENTWOOD 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 21056512	BRENTWOOD 2105	0.626800045		Contra Costa	Tier 2	FALSE	TRUE	FALSE
BRENTWOOD 210577560	BRENTWOOD 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 210596324	BRENTWOOD 2105	0.463266261		Contra Costa	Tier 2	FALSE	TRUE	TRUE
BRENTWOOD 210598606	BRENTWOOD 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2105B503R	BRENTWOOD 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2105B504R	BRENTWOOD 2105	8.012643854		Contra Costa	Tier 2	FALSE	TRUE	TRUE
BRENTWOOD 2105B534R	BRENTWOOD 2105	0.004466039		Contra Costa	Tier 2	TRUE	TRUE	TRUE
BRENTWOOD 2105CB	BRENTWOOD 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2106139932	BRENTWOOD 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2106CB	BRENTWOOD 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2108192528	BRENTWOOD 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 210838994	BRENTWOOD 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2108CB	BRENTWOOD 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2109CB	BRENTWOOD 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2110CB	BRENTWOOD 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 211199210	BRENTWOOD 2111	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2111CB	BRENTWOOD 2111	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 211219647	BRENTWOOD 2112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 211221256	BRENTWOOD 2112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 21122782	BRENTWOOD 2112	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
BRENTWOOD 211234690	BRENTWOOD 2112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2112391224	BRENTWOOD 2112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 211249428	BRENTWOOD 2112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 211266654	BRENTWOOD 2112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2112CB	BRENTWOOD 2112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2112K504R	BRENTWOOD 2112	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
BRENTWOOD 2112K525R	BRENTWOOD 2112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2113871653	BRENTWOOD 2113	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRENTWOOD 2113CB	BRENTWOOD 2113	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BRIDGEVILLE 1101365380	BRIDGEVILLE 1101	4.989661216		Humboldt	Tier 3	FALSE	TRUE	FALSE
BRIDGEVILLE 110137484	BRIDGEVILLE 1101	10.23433892		Humboldt	Tier 2	FALSE	TRUE	FALSE
BRIDGEVILLE 110169866	BRIDGEVILLE 1101	6.540333074		Humboldt	Tier 3	FALSE	TRUE	TRUE
BRIDGEVILLE 1101CB	BRIDGEVILLE 1101	3.500298072		Humboldt	Tier 3	FALSE	TRUE	FALSE
BRIDGEVILLE 1102353222	BRIDGEVILLE 1102	6.708706208		Humboldt	Tier 2	FALSE	TRUE	FALSE
BRIDGEVILLE 110237486	BRIDGEVILLE 1102	0.718010165		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
BRIDGEVILLE 110255612	BRIDGEVILLE 1102	22.14458873		Humboldt	Tier 3	FALSE	TRUE	FALSE
BRIDGEVILLE 1102839652	BRIDGEVILLE 1102	1.591839264		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
BRIDGEVILLE 1102CB	BRIDGEVILLE 1102	12.09388981		Humboldt	Tier 3	TRUE	TRUE	FALSE
BRITTON 1104CB	BRITTON 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1105CB	BRITTON 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1106CB	BRITTON 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 110779156	BRITTON 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1107CB	BRITTON 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1107LV66	BRITTON 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1108CB	BRITTON 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 110960112	BRITTON 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1109CB	BRITTON 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1110CB	BRITTON 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1110LV32	BRITTON 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1110LV38	BRITTON 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1111CB	BRITTON 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1112CB	BRITTON 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1113CB	BRITTON 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 111477584	BRITTON 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1114CB	BRITTON 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BRITTON 1115CB	BRITTON 1115	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
BROOKSIDE 0401CB	BROOKSIDE 0401	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
BROWNS VALLEY 11011268	BROWNS VALLEY 1101	10.88351636		Yuba	Tier 2	TRUE	TRUE	FALSE
BROWNS VALLEY 110136622	BROWNS VALLEY 1101	4.72936669		Yuba	Tier 2	FALSE	TRUE	FALSE
BROWNS VALLEY 110193870	BROWNS VALLEY 1101	19.61859723		Yuba	Tier 2	FALSE	TRUE	TRUE
BROWNS VALLEY 110197188	BROWNS VALLEY 1101	6.969066206		Yuba	Tier 2	FALSE	TRUE	FALSE
BROWNS VALLEY 1101CB	BROWNS VALLEY 1101	2.005450588		Yuba	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 11021010	BRUNSWICK 1102	44.51651226		Nevada	Tier 3	TRUE	TRUE	TRUE
BRUNSWICK 1102940	BRUNSWICK 1102	1.071750272		Nevada	Tier 3	TRUE	TRUE	TRUE
BRUNSWICK 1102CB	BRUNSWICK 1102	6.086434657		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 1103164092	BRUNSWICK 1103	0.057961466		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 1103173934	BRUNSWICK 1103	10.93953482		Nevada	Tier 3	FALSE	TRUE	FALSE
BRUNSWICK 11032200	BRUNSWICK 1103	5.591674583		Nevada	Tier 3	FALSE	TRUE	FALSE
BRUNSWICK 1103234378	BRUNSWICK 1103	0.593101821		Nevada	Tier 2	FALSE	TRUE	FALSE
BRUNSWICK 1103262343	BRUNSWICK 1103	0.800740712		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 11032784	BRUNSWICK 1103	18.00457909		Nevada	Tier 3	TRUE	TRUE	TRUE
BRUNSWICK 110350070	BRUNSWICK 1103	7.98930501		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 1103639148	BRUNSWICK 1103	8.967221149		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 110378862	BRUNSWICK 1103	0.022720197		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 1103851116	BRUNSWICK 1103	0.210134762		Nevada	Tier 2	FALSE	TRUE	FALSE
BRUNSWICK 1103852240	BRUNSWICK 1103	0.822055095		Nevada	Tier 2	FALSE	TRUE	FALSE
BRUNSWICK 11038918	BRUNSWICK 1103	1.383764737		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 1103904574	BRUNSWICK 1103	1.540868151		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 1103956424	BRUNSWICK 1103	0.123078624		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 1103CB	BRUNSWICK 1103	1.371188953		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 11041020	BRUNSWICK 1104	28.68574319		Nevada	Tier 3	TRUE	TRUE	TRUE
BRUNSWICK 11042112	BRUNSWICK 1104	19.41986429		Nevada	Tier 3	TRUE	TRUE	TRUE
BRUNSWICK 1104285704	BRUNSWICK 1104	1.066322852		Nevada	Tier 2	FALSE	TRUE	FALSE
BRUNSWICK 110456468	BRUNSWICK 1104	6.306815005		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 1104761310	BRUNSWICK 1104	0.039034976		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 1104CB	BRUNSWICK 1104	0.480072484		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 11051030	BRUNSWICK 1105	2.427622483		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 11052100	BRUNSWICK 1105	4.003795495		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 11052130	BRUNSWICK 1105	11.58338124		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 11052140	BRUNSWICK 1105	34.32756038		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 11052204	BRUNSWICK 1105	3.209509004		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 11052210	BRUNSWICK 1105	21.58889875		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 1105271012	BRUNSWICK 1105	13.2149122		Nevada	Tier 3	TRUE	TRUE	TRUE
BRUNSWICK 1105272286	BRUNSWICK 1105	3.172292937		Nevada	Tier 3	FALSE	TRUE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
BRUNSWICK 1105297538	BRUNSWICK 1105	1.057178061		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 110532536	BRUNSWICK 1105	10.99900267		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 1105452800	BRUNSWICK 1105	0.815583115		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 110584480	BRUNSWICK 1105	4.587675491		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 1105875388	BRUNSWICK 1105	2.951311251		Nevada	Tier 3	FALSE	TRUE	FALSE
BRUNSWICK 1105963830	BRUNSWICK 1105	3.93895455		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 1105CB	BRUNSWICK 1105	0.283408266		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 1106114670	BRUNSWICK 1106	1.769546744		Nevada	Tier 2	FALSE	TRUE	FALSE
BRUNSWICK 11062104	BRUNSWICK 1106	9.62029252		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 11062392	BRUNSWICK 1106	6.292871331		Nevada	Tier 3	TRUE	TRUE	TRUE
BRUNSWICK 11062416	BRUNSWICK 1106	32.67118937		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 11062790	BRUNSWICK 1106	7.979867366		Nevada	Tier 3	TRUE	TRUE	TRUE
BRUNSWICK 11062796	BRUNSWICK 1106	19.98025497		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 110651484	BRUNSWICK 1106	22.49908984		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 110651486	BRUNSWICK 1106	55.89233536		Nevada	Tier 3	TRUE	TRUE	TRUE
BRUNSWICK 110663124	BRUNSWICK 1106	3.402464773		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 1106657600	BRUNSWICK 1106	2.600038654		Nevada	Tier 3	FALSE	TRUE	FALSE
BRUNSWICK 1106CB	BRUNSWICK 1106	8.606588673		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 1107357568	BRUNSWICK 1107	1.105428387		Nevada	Tier 2	TRUE	TRUE	TRUE
BRUNSWICK 110750008	BRUNSWICK 1107	0.179188235		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 110750010	BRUNSWICK 1107	5.780955355		Nevada	Tier 3	FALSE	TRUE	TRUE
BRUNSWICK 110756240	BRUNSWICK 1107	0.611277485		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 110765574	BRUNSWICK 1107	0.459753074		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 110767218	BRUNSWICK 1107	0		Nevada	Non-HFTD	FALSE	FALSE	FALSE
BRUNSWICK 1107969778	BRUNSWICK 1107	0.699211717		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 1107CB	BRUNSWICK 1107	0		Nevada	Non-HFTD	FALSE	FALSE	FALSE
BRUNSWICK 11102664	BRUNSWICK 1110	7.786837899		Nevada	Tier 2	TRUE	TRUE	TRUE
BRUNSWICK 1110528196	BRUNSWICK 1110	0		Nevada	Non-HFTD	FALSE	FALSE	FALSE
BRUNSWICK 111061602	BRUNSWICK 1110	10.53280553		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 111063100	BRUNSWICK 1110	4.16688546		Nevada	Tier 2	FALSE	TRUE	FALSE
BRUNSWICK 1110832231	BRUNSWICK 1110	0		Nevada	Non-HFTD	FALSE	FALSE	FALSE
BRUNSWICK 111094368	BRUNSWICK 1110	0.291662154		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 111095576	BRUNSWICK 1110	0.00963008		Nevada	Tier 2	FALSE	TRUE	TRUE
BRUNSWICK 1110CB	BRUNSWICK 1110	0.000682887		Nevada	Tier 2	FALSE	TRUE	TRUE
BUCKS CREEK 1102CB	BUCKS CREEK 1102	0.029610437		Plumas	Tier 3	TRUE	TRUE	TRUE
BUCKS CREEK 1103338520	BUCKS CREEK 1103	10.32109329		Plumas	Tier 3	FALSE	TRUE	TRUE
BUCKS CREEK 1103CB	BUCKS CREEK 1103	2.294234926		Plumas	Tier 3	TRUE	TRUE	TRUE
BUELLTON 1101CB	BUELLTON 1101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
BUELLTON 1101Y06	BUELLTON 1101	27.67706563		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
BUELLTON 1101Y26	BUELLTON 1101	14.10592446		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
BUELLTON 1101Y34	BUELLTON 1101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
BUELLTON 1101Y36	BUELLTON 1101	35.68592735		Santa Barbara	Tier 3	FALSE	TRUE	TRUE
BUELLTON 1102CB	BUELLTON 1102	5.687187058		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
BUELLTON 1102Y20	BUELLTON 1102	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
BUELLTON 1102Y50	BUELLTON 1102	10.35995651		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
BUENA VISTA 1101CB	BUENA VISTA 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BUENA VISTA 11023730	BUENA VISTA 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BUENA VISTA 1102555392	BUENA VISTA 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BUENA VISTA 1102CB	BUENA VISTA 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BUENA VISTA 1103CB	BUENA VISTA 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BUENA VISTA 1104388555	BUENA VISTA 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BUENA VISTA 1104810866	BUENA VISTA 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BUENA VISTA 1104CB	BUENA VISTA 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BUENA VISTA 11063714	BUENA VISTA 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BUENA VISTA 1106CB	BUENA VISTA 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 110133906	BULLARD 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 110165566	BULLARD 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 110182586	BULLARD 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 110192306	BULLARD 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 11019527	BULLARD 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1101CB	BULLARD 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 110269280	BULLARD 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1102CB	BULLARD 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1102R6062	BULLARD 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 110355680	BULLARD 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 110382776	BULLARD 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1103CB	BULLARD 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 110475696	BULLARD 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1104CB	BULLARD 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 110567230	BULLARD 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 110592538	BULLARD 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1105CB	BULLARD 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 110647944	BULLARD 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1106CB	BULLARD 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1107331778	BULLARD 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1107CB	BULLARD 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1108CB	BULLARD 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1109CB	BULLARD 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1110CB	BULLARD 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1110R577	BULLARD 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 1113CB	BULLARD 1113	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 211155476	BULLARD 2111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 211155478	BULLARD 2111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 2111CB	BULLARD 2111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 211228639	BULLARD 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 211242194	BULLARD 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 2112CB	BULLARD 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 2112R2566	BULLARD 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 211465560	BULLARD 2114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 211482880	BULLARD 2114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BULLARD 2114CB	BULLARD 2114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
BURLINGAME 040139556	BURLINGAME 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BURLINGAME 04019058	BURLINGAME 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BURLINGAME 0401CB	BURLINGAME 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BURLINGAME 04029056	BURLINGAME 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BURLINGAME 0402CB	BURLINGAME 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BURLINGAME 04039064	BURLINGAME 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BURLINGAME 0403CB	BURLINGAME 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BURLINGAME 04049066	BURLINGAME 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BURLINGAME 0404CB	BURLINGAME 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BURLINGAME 04059054	BURLINGAME 0405	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
BURLINGAME 0405CB	BURLINGAME 0405	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BURLINGAME 2101A80	BURLINGAME 2101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BURLINGAME 2101A82	BURLINGAME 2101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BURLINGAME 2101CB	BURLINGAME 2101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
BURNEY 11011322	BURNEY 1101	14.75901098		Shasta	Tier 2	FALSE	TRUE	FALSE
BURNEY 11011340	BURNEY 1101	18.02607267		Shasta	Tier 2	FALSE	TRUE	TRUE
BURNEY 11011358	BURNEY 1101	4.00291552		Shasta	Tier 2	FALSE	TRUE	FALSE
BURNEY 11012402	BURNEY 1101	1.407307938		Shasta	Tier 2	FALSE	TRUE	TRUE
BURNEY 110145984	BURNEY 1101	4.840989659		Shasta	Tier 2	FALSE	TRUE	TRUE
BURNEY 1101519432	BURNEY 1101	3.501555977		Shasta	Tier 2	FALSE	TRUE	TRUE
BURNEY 11019042	BURNEY 1101	3.157566315		Shasta	Tier 2	FALSE	TRUE	FALSE
BURNEY 1101CB	BURNEY 1101	1.235578413		Shasta	Tier 2	FALSE	TRUE	TRUE
BURNEY 1102272636	BURNEY 1102	0.240322274		Shasta	Tier 2	FALSE	TRUE	TRUE
BURNEY 110237284	BURNEY 1102	0.193787515		Shasta	Tier 2	FALSE	TRUE	TRUE
BURNEY 110257046	BURNEY 1102	0.007933237		Shasta	Tier 2	FALSE	TRUE	TRUE
BURNEY 110297318	BURNEY 1102	0.200563029		Shasta	Tier 2	FALSE	TRUE	TRUE
BURNEY 1102CB	BURNEY 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
BURNS 210110912	BURNS 2101	0.487527971		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BURNS 210136516	BURNS 2101	0.582811716		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BURNS 210139126	BURNS 2101	13.14375829		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BURNS 210190678	BURNS 2101	4.412763617		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BURNS 210191034	BURNS 2101	3.99711798		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BURNS 2101BL 2101	BURNS 2101	0.003225513		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
BURNS 2101CB	BURNS 2101	6.517574904		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
BUTTE 11032104	BUTTE 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 11032208	BUTTE 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 11032422	BUTTE 1103	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
BUTTE 1103883320	BUTTE 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 1103CB	BUTTE 1103	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
BUTTE 11042058	BUTTE 1104	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 11042400	BUTTE 1104	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 11042440	BUTTE 1104	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 1104CB	BUTTE 1104	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 1105134600	BUTTE 1105	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
BUTTE 11052224	BUTTE 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 1105235788	BUTTE 1105	7.972419178		Butte	Tier 3	TRUE	TRUE	TRUE
BUTTE 11052576	BUTTE 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 1105398234	BUTTE 1105	15.01074064		Butte	Tier 3	TRUE	TRUE	TRUE
BUTTE 1105518014	BUTTE 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 1105612016	BUTTE 1105	5.419614044		Butte	Tier 3	TRUE	TRUE	FALSE
BUTTE 1105751990	BUTTE 1105	2.135775515		Butte	Tier 2	TRUE	TRUE	TRUE
BUTTE 1105CB	BUTTE 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 11062616	BUTTE 1106	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 1106CB	BUTTE 1106	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 11072078	BUTTE 1107	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 11072220	BUTTE 1107	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 11072222	BUTTE 1107	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 11072434	BUTTE 1107	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 11072498	BUTTE 1107	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 11072500	BUTTE 1107	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 11072566	BUTTE 1107	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 1107551918	BUTTE 1107	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 110782496	BUTTE 1107	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
BUTTE 1107CB	BUTTE 1107	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CABRILLO 11031437	CABRILLO 1103	2.255796087		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
CABRILLO 1103CB	CABRILLO 1103	0.450320502		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
CABRILLO 1103Y10	CABRILLO 1103	4.251008244		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
CABRILLO 1103Y12	CABRILLO 1103	24.97867386		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
CABRILLO 1103Y46	CABRILLO 1103	25.6603446		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
CABRILLO 1104431976	CABRILLO 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
CABRILLO 1104497036	CABRILLO 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
CABRILLO 1104597930	CABRILLO 1104	3.428035351		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
CABRILLO 1104765792	CABRILLO 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
CABRILLO 1104838078	CABRILLO 1104	9.363011773		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
CABRILLO 1104CB	CABRILLO 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
CABRILLO 1104Y08	CABRILLO 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
CABRILLO 1104Y24	CABRILLO 1104	17.95712061		Santa Barbara	Tier 2	FALSE	TRUE	FALSE
CADET 1101CB	CADET 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CAL WATER 1102135060	CAL WATER 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CAL WATER 1102329532	CAL WATER 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CAL WATER 11023428	CAL WATER 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CAL WATER 11023802	CAL WATER 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CAL WATER 1102690954	CAL WATER 1102	3.715576288		Kern	Tier 2	FALSE	TRUE	TRUE
CAL WATER 1102920714	CAL WATER 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CAL WATER 1102CB	CAL WATER 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CAL WATER 1103429550	CAL WATER 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CAL WATER 1103768902	CAL WATER 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CAL WATER 1103CB	CAL WATER 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CALAVERAS CEMENT 110111188	CALAVERAS CEMENT 1101	29.94301686		Calaveras	Tier 2	FALSE	TRUE	TRUE
CALAVERAS CEMENT 110111236	CALAVERAS CEMENT 1101	19.58640316		Calaveras	Tier 2	FALSE	TRUE	TRUE
CALAVERAS CEMENT 110113424	CALAVERAS CEMENT 1101	1.424054165		Calaveras	Tier 2	FALSE	TRUE	TRUE
CALAVERAS CEMENT 11011419	CALAVERAS CEMENT 1101	14.88829414		Calaveras	Tier 2	TRUE	TRUE	TRUE
CALAVERAS CEMENT 11012646	CALAVERAS CEMENT 1101	17.48368218		Calaveras	Tier 2	TRUE	TRUE	TRUE
CALAVERAS CEMENT 110136880	CALAVERAS CEMENT 1101	5.926458689		Calaveras	Tier 2	FALSE	TRUE	TRUE
CALAVERAS CEMENT 11014786	CALAVERAS CEMENT 1101	17.85763443		Calaveras	Tier 3	TRUE	TRUE	TRUE
CALAVERAS CEMENT 110147968	CALAVERAS CEMENT 1101	17.11399709		Calaveras	Tier 3	TRUE	TRUE	TRUE
CALAVERAS CEMENT 1101502	CALAVERAS CEMENT 1101	36.71417207		Calaveras	Tier 2	TRUE	TRUE	TRUE
CALAVERAS CEMENT 1101544800	CALAVERAS CEMENT 1101	22.99085965		Calaveras	Tier 2	TRUE	TRUE	TRUE
CALAVERAS CEMENT 1101585	CALAVERAS CEMENT 1101	14.12854346		Calaveras	Tier 2	FALSE	TRUE	TRUE
CALAVERAS CEMENT 110180930	CALAVERAS CEMENT 1101	17.84190139		Calaveras	Tier 2	TRUE	TRUE	TRUE
CALAVERAS CEMENT 1101CB	CALAVERAS CEMENT 1101	10.0896669		Calaveras	Tier 2	TRUE	TRUE	TRUE
CALFLAX 1101CB	CALFLAX 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALFLAX 1102CB	CALFLAX 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALFLAX 11039560	CALFLAX 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALFLAX 1103CB	CALFLAX 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALFLAX 1103CUS303	CALFLAX 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALFLAX 1104CB	CALFLAX 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1102CB	CALIFORNIA AVE 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1103CB	CALIFORNIA AVE 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 110446974	CALIFORNIA AVE 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1104CB	CALIFORNIA AVE 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
CALIFORNIA AVE 110663184	CALIFORNIA AVE 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1106CB	CALIFORNIA AVE 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1106R651	CALIFORNIA AVE 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1108839702	CALIFORNIA AVE 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1108CB	CALIFORNIA AVE 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 111079664	CALIFORNIA AVE 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1110CB	CALIFORNIA AVE 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1111CB	CALIFORNIA AVE 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1111R2610	CALIFORNIA AVE 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 111279552	CALIFORNIA AVE 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 111297998	CALIFORNIA AVE 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1112CB	CALIFORNIA AVE 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1113901816	CALIFORNIA AVE 1113	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 111391862	CALIFORNIA AVE 1113	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1113CB	CALIFORNIA AVE 1113	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1114509378	CALIFORNIA AVE 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1114653348	CALIFORNIA AVE 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1114CB	CALIFORNIA AVE 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1114D6429	CALIFORNIA AVE 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1116CB	CALIFORNIA AVE 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1116D6132	CALIFORNIA AVE 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1116D8892	CALIFORNIA AVE 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALIFORNIA AVE 1117CB	CALIFORNIA AVE 1117	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CALISTOGA 1101122350	CALISTOGA 1101	2.068921181		Napa	Tier 3	FALSE	TRUE	TRUE
CALISTOGA 1101134232	CALISTOGA 1101	0		Napa	Non-HFTD	TRUE	TRUE	FALSE
CALISTOGA 1101157668	CALISTOGA 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
CALISTOGA 1101217982	CALISTOGA 1101	0.077659233		Napa	Tier 2	TRUE	TRUE	TRUE
CALISTOGA 1101242919	CALISTOGA 1101	1.312010066		Sonoma	Tier 3	FALSE	TRUE	TRUE
CALISTOGA 1101257964	CALISTOGA 1101	12.22447369		Napa	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 1101267806	CALISTOGA 1101	0.01539753		Napa	Tier 2	FALSE	TRUE	TRUE
CALISTOGA 110135588	CALISTOGA 1101	2.942629337		Napa	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 110143924	CALISTOGA 1101	7.505089791		Napa	Tier 3	FALSE	TRUE	TRUE
CALISTOGA 1101537148	CALISTOGA 1101	0.392619344		Napa	Tier 2	FALSE	TRUE	TRUE
CALISTOGA 11015934	CALISTOGA 1101	25.73622199		Sonoma	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 1101727772	CALISTOGA 1101	1.34728855		Napa	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 1101730666	CALISTOGA 1101	2.188305687		Sonoma	Tier 3	FALSE	TRUE	TRUE
CALISTOGA 110178734	CALISTOGA 1101	10.89638555		Sonoma	Tier 3	TRUE	TRUE	FALSE
CALISTOGA 1101843761	CALISTOGA 1101	3.614420206		Sonoma	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 1101881110	CALISTOGA 1101	0.636834556		Napa	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 1101886282	CALISTOGA 1101	10.87965318		Sonoma	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 1101890	CALISTOGA 1101	6.447546113		Sonoma	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 1101894	CALISTOGA 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
CALISTOGA 1101894220	CALISTOGA 1101	10.59041509		Napa	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 1101959538	CALISTOGA 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
CALISTOGA 1101CB	CALISTOGA 1101	0.086753393		Napa	Tier 2	FALSE	TRUE	TRUE
CALISTOGA 1102131531	CALISTOGA 1102	4.84154209		Napa	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 1102141073	CALISTOGA 1102	1.089850861		Napa	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 1102177784	CALISTOGA 1102	0.090317394		Napa	Tier 2	FALSE	TRUE	TRUE
CALISTOGA 1102184814	CALISTOGA 1102	0.202474084		Napa	Tier 2	FALSE	TRUE	TRUE
CALISTOGA 1102270153	CALISTOGA 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
CALISTOGA 1102279135	CALISTOGA 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
CALISTOGA 1102306462	CALISTOGA 1102	0.098051416		Napa	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 1102447865	CALISTOGA 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
CALISTOGA 1102634	CALISTOGA 1102	5.868561082		Napa	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 1102640833	CALISTOGA 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
CALISTOGA 110266730	CALISTOGA 1102	1.067524536		Napa	Tier 3	TRUE	TRUE	FALSE
CALISTOGA 1102706	CALISTOGA 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
CALISTOGA 1102769230	CALISTOGA 1102	9.650501891		Napa	Tier 3	TRUE	TRUE	TRUE
CALISTOGA 1102892348	CALISTOGA 1102	0.382567071		Napa	Tier 3	FALSE	TRUE	TRUE
CALISTOGA 1102929461	CALISTOGA 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
CALISTOGA 1102960240	CALISTOGA 1102	0.507192103		Napa	Tier 3	FALSE	TRUE	FALSE
CALISTOGA 1102963232	CALISTOGA 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
CALISTOGA 1102CB	CALISTOGA 1102	0.053046708		Napa	Tier 2	FALSE	TRUE	TRUE
CALPELLA 1101345230	CALPELLA 1101	0.687397914		Mendocino	Tier 2	FALSE	TRUE	TRUE
CALPELLA 1101372366	CALPELLA 1101	6.415980349		Mendocino	Tier 2	TRUE	TRUE	TRUE
CALPELLA 1101542	CALPELLA 1101	33.0388954		Mendocino	Tier 2	FALSE	TRUE	FALSE
CALPELLA 1101619542	CALPELLA 1101	1.360072732		Mendocino	Tier 2	FALSE	TRUE	FALSE
CALPELLA 1101753000	CALPELLA 1101	18.95887163		Mendocino	Tier 3	TRUE	TRUE	TRUE
CALPELLA 1101908688	CALPELLA 1101	8.519133599		Mendocino	Tier 2	FALSE	TRUE	TRUE
CALPELLA 1101931142	CALPELLA 1101	7.964349201		Mendocino	Tier 3	FALSE	TRUE	FALSE
CALPELLA 1101CB	CALPELLA 1101	4.936085422		Mendocino	Tier 2	TRUE	TRUE	TRUE
CALPELLA 1102421412	CALPELLA 1102	0.725656922		Mendocino	Tier 2	FALSE	TRUE	FALSE
CALPELLA 1102CB	CALPELLA 1102	1.077585925		Mendocino	Tier 2	FALSE	TRUE	TRUE
CALPINE 1144276-G	CALPINE 1144	0.01475622		Sonoma	Tier 3	FALSE	TRUE	TRUE
CALPINE 1144304	CALPINE 1144	0.04635846		Lake	Tier 3	FALSE	TRUE	TRUE
CALPINE 1144960	CALPINE 1144	4.061397463		Lake	Tier 3	FALSE	TRUE	TRUE
CALPINE 1144962	CALPINE 1144	0.039372279		Lake	Tier 3	FALSE	TRUE	TRUE
CALPINE 1144CB	CALPINE 1144	26.54016926		Sonoma	Tier 3	FALSE	TRUE	TRUE
CALPINE 1146200-G	CALPINE 1146	0.0085228		Sonoma	Tier 3	FALSE	TRUE	TRUE
CALPINE 1146394G	CALPINE 1146	0.01128926		Sonoma	Tier 3	FALSE	TRUE	TRUE
CALPINE 1146400	CALPINE 1146	1.842284029		Sonoma	Tier 3	FALSE	TRUE	TRUE
CALPINE 1146CB	CALPINE 1146	3.746587849		Sonoma	Tier 3	FALSE	TRUE	TRUE
CAMBRIA 1101175422	CAMBRIA 1101	18.5552155		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
CAMBRIA 1101858200	CAMBRIA 1101	5.812391121		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
CAMBRIA 1101CB	CAMBRIA 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CAMBRIA 1102CB	CAMBRIA 1102	15.23337017		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
CAMBRIA 1102W50	CAMBRIA 1102	0.531978716		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
CAMDEN 110237578	CAMDEN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 110237596	CAMDEN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 11025547F	CAMDEN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 11026240	CAMDEN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 1102CB	CAMDEN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 1103453786	CAMDEN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 110356058	CAMDEN 1103	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 11036490	CAMDEN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 11036500	CAMDEN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 11036570	CAMDEN 1103	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 11036921F	CAMDEN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 11036922F	CAMDEN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 11038920	CAMDEN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 1103CB	CAMDEN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
CAMDEN 1104548526	CAMDEN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 11046030	CAMDEN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 11046200	CAMDEN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 1104744839	CAMDEN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 1104753844	CAMDEN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 1104CB	CAMDEN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 11056740	CAMDEN 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMDEN 1105CB	CAMDEN 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAMP EVERS 210310946	CAMP EVERS 2103	4.144611108		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210311046	CAMP EVERS 2103	16.07146871		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210311056	CAMP EVERS 2103	4.064659714		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210312990	CAMP EVERS 2103	13.17990681		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 2103449218	CAMP EVERS 2103	1.375751575		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 21035402	CAMP EVERS 2103	2.491872028		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 21035404	CAMP EVERS 2103	2.353535618		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210355638	CAMP EVERS 2103	1.329195652		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210392582	CAMP EVERS 2103	0.052245198		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 2103CB	CAMP EVERS 2103	0.614539991		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210410442	CAMP EVERS 2104	5.206965293		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210411048	CAMP EVERS 2104	21.19291646		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 2104189010	CAMP EVERS 2104	0.027847625		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
CAMP EVERS 2104CB	CAMP EVERS 2104	0.791950374		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210510214	CAMP EVERS 2105	2.221846177		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210510728	CAMP EVERS 2105	11.50860717		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210510996	CAMP EVERS 2105	4.398094926		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210511004	CAMP EVERS 2105	4.327541454		Santa Cruz	Tier 3	FALSE	TRUE	FALSE
CAMP EVERS 210511384	CAMP EVERS 2105	5.184834949		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210512590	CAMP EVERS 2105	4.998622334		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210533542	CAMP EVERS 2105	2.666763111		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 2105426822	CAMP EVERS 2105	1.137199615		Santa Cruz	Tier 3	FALSE	TRUE	FALSE
CAMP EVERS 21055146	CAMP EVERS 2105	5.926160228		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 21055188	CAMP EVERS 2105	2.022633675		Santa Cruz	Tier 3	FALSE	TRUE	FALSE
CAMP EVERS 21055232	CAMP EVERS 2105	4.497534091		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 2105601610	CAMP EVERS 2105	10.40535993		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210584166	CAMP EVERS 2105	7.959509808		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210595050	CAMP EVERS 2105	0.14266401		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 2105CB	CAMP EVERS 2105	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
CAMP EVERS 210611006	CAMP EVERS 2106	2.045228855		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210611044	CAMP EVERS 2106	7.420339678		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
CAMP EVERS 210612518	CAMP EVERS 2106	15.4238681		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210612760	CAMP EVERS 2106	26.22998691		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210612840	CAMP EVERS 2106	3.905636684		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 2106130936	CAMP EVERS 2106	2.510009341		Santa Cruz	Tier 3	FALSE	TRUE	FALSE
CAMP EVERS 210616000	CAMP EVERS 2106	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
CAMP EVERS 2106255706	CAMP EVERS 2106	0.049567996		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 2106257600	CAMP EVERS 2106	2.032942012		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 2106287578	CAMP EVERS 2106	4.30819826		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
CAMP EVERS 210637210	CAMP EVERS 2106	6.071904202		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 2106478670	CAMP EVERS 2106	2.806897994		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 21065020	CAMP EVERS 2106	11.86387471		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 21065300	CAMP EVERS 2106	9.701653788		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210660120	CAMP EVERS 2106	4.280180243		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210660124	CAMP EVERS 2106	25.04923599		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 2106737512	CAMP EVERS 2106	9.092774688		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 21067603	CAMP EVERS 2106	0.948976825		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 210694770	CAMP EVERS 2106	2.133746045		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
CAMP EVERS 2106CB	CAMP EVERS 2106	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
CAMPHORA 0401CB	CAMPHORA 0401	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CAMPHORA 110122412	CAMPHORA 1101	1.949855879		Monterey	Tier 2	FALSE	TRUE	TRUE
CAMPHORA 11013092	CAMPHORA 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CAMPHORA 1101552534	CAMPHORA 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CAMPHORA 1101613562	CAMPHORA 1101	1.937199341		Monterey	Tier 2	FALSE	TRUE	FALSE
CAMPHORA 110177978	CAMPHORA 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CAMPHORA 1101CB	CAMPHORA 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CANAL 11013040	CANAL 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 1101459434	CANAL 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 110192709	CANAL 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 1101CB	CANAL 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 1102464575	CANAL 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 1102520064	CANAL 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 1102CB	CANAL 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 110311170	CANAL 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 110312120	CANAL 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 11032990	CANAL 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 11033640	CANAL 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 110336722	CANAL 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 1103CB	CANAL 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 110411160	CANAL 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 110478274	CANAL 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 1104CB	CANAL 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 110511060	CANAL 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 1105653704	CANAL 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 1105872392	CANAL 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 1105990288	CANAL 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 1105CB	CANAL 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 110611640	CANAL 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANAL 1106CB	CANAL 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CANTUA 11019880	CANTUA 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CANTUA 11019890	CANTUA 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CANTUA 1101CB	CANTUA 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CANTUA 11029310	CANTUA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CANTUA 1102CB	CANTUA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CANTUA 1103792930	CANTUA 1103	2.725875619		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CANTUA 11039250	CANTUA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CANTUA 11039900	CANTUA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CANTUA 1103CB	CANTUA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CANTUA 1104CB	CANTUA 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CANTUA 11059790	CANTUA 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CANTUA 1105CB	CANTUA 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CANTUA 1106CB	CANTUA 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CAPAY 11012254	CAPAY 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
CAPAY 11012256	CAPAY 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CAPAY 1101CB	CAPAY 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
CAPAY 11022086	CAPAY 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
CAPAY 11022264	CAPAY 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
CAPAY 110237148	CAPAY 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
CAPAY 1102575698	CAPAY 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
CAPAY 1102635856	CAPAY 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
CAPAY 110266596	CAPAY 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
CAPAY 110286444	CAPAY 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
CAPAY 110289646	CAPAY 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
CAPAY 1102CB	CAPAY 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
CARBONA 110114204	CARBONA 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CARBONA 110145186	CARBONA 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CARBONA 1101975330	CARBONA 1101	0.776211183		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CARBONA 1101CB	CARBONA 1101	0		San Joaquin	Non-HFTD	TRUE	TRUE	FALSE
CARBONA 1103CB	CARBONA 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CARLOTTA 112142896	CARLOTTA 1121	2.235047444		Humboldt	Tier 2	FALSE	TRUE	FALSE
CARLOTTA 112144150	CARLOTTA 1121	7.239450902		Humboldt	Tier 2	FALSE	TRUE	FALSE
CARLOTTA 11214914	CARLOTTA 1121	9.585391666		Humboldt	Tier 2	TRUE	TRUE	FALSE
CARLOTTA 1121686774	CARLOTTA 1121	1.443004615		Humboldt	Tier 2	FALSE	TRUE	TRUE
CARLOTTA 1121CB	CARLOTTA 1121	0.577855825		Humboldt	Tier 2	FALSE	TRUE	TRUE
CARNATION 2101CB	CARNATION 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CARNERAS 11023266	CARNERAS 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CARNERAS 1102372456	CARNERAS 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CARNERAS 1102CB	CARNERAS 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CARNERAS 11031584	CARNERAS 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CARNERAS 1103430670	CARNERAS 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CARNERAS 1103CB	CARNERAS 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CAROLANDS 04018506	CAROLANDS 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
CAROLANDS 04018886	CAROLANDS 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
CAROLANDS 04018888	CAROLANDS 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
CAROLANDS 040197209	CAROLANDS 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
CAROLANDS 0401CB	CAROLANDS 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
CAROLANDS 0402CB	CAROLANDS 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
CAROLANDS 04038508	CAROLANDS 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
CAROLANDS 040387073	CAROLANDS 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
CAROLANDS 040387173	CAROLANDS 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
CAROLANDS 04038980	CAROLANDS 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
CAROLANDS 0403CB	CAROLANDS 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
CAROLANDS 040484797	CAROLANDS 0404	0.067996135		San Mateo	Tier 2	FALSE	TRUE	TRUE
CAROLANDS 04049024	CAROLANDS 0404	3.44864376		San Mateo	Tier 2	FALSE	TRUE	TRUE
CAROLANDS 04049026	CAROLANDS 0404	0.646113777		San Mateo	Tier 2	FALSE	TRUE	TRUE
CAROLANDS 0404CB	CAROLANDS 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
CARQUINEZ 1103646	CARQUINEZ 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CARQUINEZ 110369014	CARQUINEZ 1103	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
CARQUINEZ 110383138	CARQUINEZ 1103	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
CARQUINEZ 1103CB	CARQUINEZ 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CARQUINEZ 1104CB	CARQUINEZ 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CARQUINEZ 1105680	CARQUINEZ 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CARQUINEZ 1105CB	CARQUINEZ 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CARRIZO PLAINS 11013527	CARRIZO PLAINS 1101	0		San Luis Obispo	Non-HFTD	TRUE	TRUE	FALSE
CARRIZO PLAINS 1101384116	CARRIZO PLAINS 1101	0.111890736		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CARRIZO PLAINS 1101711854	CARRIZO PLAINS 1101	4.275991899		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CARRIZO PLAINS 1101CB	CARRIZO PLAINS 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 110149650	CARUTHERS 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 11016290	CARUTHERS 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1101646366	CARUTHERS 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 11016900	CARUTHERS 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1101CB	CARUTHERS 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1102109158	CARUTHERS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1102188898	CARUTHERS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1102389798	CARUTHERS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1102426884	CARUTHERS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1102803408	CARUTHERS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 11029060	CARUTHERS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1102CB	CARUTHERS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1102CUS3196	CARUTHERS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1102R5100	CARUTHERS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 110434456	CARUTHERS 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 11046550	CARUTHERS 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 11046737	CARUTHERS 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 110478636	CARUTHERS 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1104CB	CARUTHERS 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1105553830	CARUTHERS 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 11056300	CARUTHERS 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1105665998	CARUTHERS 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1105749586	CARUTHERS 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 110595148	CARUTHERS 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CARUTHERS 1105CB	CARUTHERS 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CASSERLY 0401CB	CASSERLY 0401	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
CASSIDY 21076090	CASSIDY 2107	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CASSIDY 21079500	CASSIDY 2107	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CASSIDY 2107CB	CASSIDY 2107	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CASSIDY 2108186620	CASSIDY 2108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CASSIDY 21086060	CASSIDY 2108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CASSIDY 210868818	CASSIDY 2108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CASSIDY 21089510	CASSIDY 2108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CASSIDY 21089520	CASSIDY 2108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CASSIDY 2108CB	CASSIDY 2108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CASTRO 0401CB	CASTRO 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
CASTRO 0402CB	CASTRO 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1102837904	CASTRO VALLEY 1102	0.999104489		Alameda	Tier 2	FALSE	TRUE	FALSE
CASTRO VALLEY 1102840916	CASTRO VALLEY 1102	0.505813178		Alameda	Tier 3	FALSE	TRUE	TRUE
CASTRO VALLEY 1102960346	CASTRO VALLEY 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1102CB	CASTRO VALLEY 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1102MR204	CASTRO VALLEY 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1102MR248	CASTRO VALLEY 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1102MR359	CASTRO VALLEY 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1102MR518	CASTRO VALLEY 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1103190144	CASTRO VALLEY 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1103CB	CASTRO VALLEY 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
CASTRO VALLEY 1103MR219	CASTRO VALLEY 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1103MR526	CASTRO VALLEY 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1104CB	CASTRO VALLEY 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1105132304	CASTRO VALLEY 1105	0.005971692		Alameda	Tier 2	FALSE	TRUE	TRUE
CASTRO VALLEY 11057406	CASTRO VALLEY 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1105805238	CASTRO VALLEY 1105	1.086125425		Alameda	Tier 2	FALSE	TRUE	FALSE
CASTRO VALLEY 1105853216	CASTRO VALLEY 1105	1.090515837		Alameda	Tier 2	FALSE	TRUE	TRUE
CASTRO VALLEY 1105CB	CASTRO VALLEY 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1105MR201	CASTRO VALLEY 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1105MR215	CASTRO VALLEY 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1105MR236	CASTRO VALLEY 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1105MR579	CASTRO VALLEY 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1105MR585	CASTRO VALLEY 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1107CB	CASTRO VALLEY 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1107MR235	CASTRO VALLEY 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1107MR336	CASTRO VALLEY 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1107MR586	CASTRO VALLEY 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1107MR587	CASTRO VALLEY 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1108343456	CASTRO VALLEY 1108	8.788551551		Alameda	Tier 3	FALSE	TRUE	TRUE
CASTRO VALLEY 11088971	CASTRO VALLEY 1108	7.882418398		Alameda	Tier 3	FALSE	TRUE	TRUE
CASTRO VALLEY 1108CB	CASTRO VALLEY 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1108MR205	CASTRO VALLEY 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1108MR233	CASTRO VALLEY 1108	0.077711427		Alameda	Tier 2	FALSE	TRUE	TRUE
CASTRO VALLEY 1108MR337	CASTRO VALLEY 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1108MR578	CASTRO VALLEY 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1108MR580	CASTRO VALLEY 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1109635054	CASTRO VALLEY 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1109CB	CASTRO VALLEY 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 1109MR250	CASTRO VALLEY 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CASTRO VALLEY 111010315	CASTRO VALLEY 1110	5.402959812		Alameda	Tier 3	FALSE	TRUE	TRUE
CASTRO VALLEY 1110264914	CASTRO VALLEY 1110	0.809144581		Alameda	Tier 3	FALSE	TRUE	TRUE
CASTRO VALLEY 1110560528	CASTRO VALLEY 1110	0.145188531		Alameda	Tier 2	FALSE	TRUE	TRUE
CASTRO VALLEY 1110610800	CASTRO VALLEY 1110	2.287873709		Alameda	Tier 3	FALSE	TRUE	TRUE
CASTRO VALLEY 1110CB	CASTRO VALLEY 1110	0.215222604		Alameda	Tier 3	FALSE	TRUE	TRUE
CASTRO VALLEY 1110MR243	CASTRO VALLEY 1110	5.579696535		Alameda	Tier 3	FALSE	TRUE	TRUE
CASTRO VALLEY 1110MR273	CASTRO VALLEY 1110	0.719660571		Alameda	Tier 3	FALSE	TRUE	TRUE
CASTRO VALLEY 1110MR379	CASTRO VALLEY 1110	1.055448937		Alameda	Tier 2	FALSE	TRUE	TRUE
CASTRO VALLEY 1110MR525	CASTRO VALLEY 1110	0.002752066		Alameda	Tier 2	FALSE	TRUE	TRUE
CASTRO VALLEY 1110MR748	CASTRO VALLEY 1110	6.049714827		Alameda	Tier 3	FALSE	TRUE	TRUE
CASTRO VALLEY 1111227862	CASTRO VALLEY 1111	0.139221693		Alameda	Tier 2	FALSE	TRUE	TRUE
CASTRO VALLEY 1111CB	CASTRO VALLEY 1111	0.156724951		Alameda	Tier 3	FALSE	TRUE	TRUE
CASTRO VALLEY 1111MR334	CASTRO VALLEY 1111	5.165153677		Alameda	Tier 3	FALSE	TRUE	TRUE
CASTROVILLE 2103196060	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 210322156	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 21033014	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 21033060	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 21033693	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 21033710	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 21035018	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 2103676150	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 210370782	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 210375558	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 2103791564	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 210380794	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 210395522	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 210399672	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 2103CB	CASTROVILLE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 210422316	CASTROVILLE 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 210422428	CASTROVILLE 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 21043571	CASTROVILLE 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 210436922	CASTROVILLE 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 21043718	CASTROVILLE 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 21045002	CASTROVILLE 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 21045004	CASTROVILLE 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CASTROVILLE 2104CB	CASTROVILLE 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 1101CB	CATLETT 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 11022502	CATLETT 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 11022506	CATLETT 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 11022512	CATLETT 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 110237358	CATLETT 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 110285762	CATLETT 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 1102930180	CATLETT 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 1102CB	CATLETT 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 11051232	CATLETT 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 1105231738	CATLETT 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 11052504	CATLETT 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 110538000	CATLETT 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 110577448	CATLETT 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 110590956	CATLETT 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
CATLETT 1105CB	CATLETT 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
CAYETANO 2109884904	CAYETANO 2109	25.74627549		Contra Costa	Tier 3	FALSE	TRUE	TRUE
CAYETANO 2109CB	CAYETANO 2109	0.404580762		Alameda	Tier 2	FALSE	TRUE	TRUE
CAYETANO 2109MR186	CAYETANO 2109	0.329411681		Alameda	Tier 2	FALSE	TRUE	TRUE
CAYETANO 2109MR198	CAYETANO 2109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CAYETANO 2109MR572	CAYETANO 2109	7.255468505		Alameda	Tier 3	FALSE	TRUE	TRUE
CAYETANO 2111CB	CAYETANO 2111	5.216219778		Alameda	Tier 2	FALSE	TRUE	TRUE
CAYETANO 2111MR329	CAYETANO 2111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
CAYETANO 2111MR444	CAYETANO 2111	0.148716508		Alameda	Tier 2	FALSE	TRUE	FALSE
CAYUCOS 11014701	CAYUCOS 1101	0.45787891		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
CAYUCOS 1101CB	CAYUCOS 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CAYUCOS 1101W14	CAYUCOS 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CAYUCOS 1101W58	CAYUCOS 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CAYUCOS 1102317156	CAYUCOS 1102	1.758878793		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
CAYUCOS 1102613456	CAYUCOS 1102	12.28010138		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
CAYUCOS 1102CB	CAYUCOS 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CAYUCOS 1102W16	CAYUCOS 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CAYUCOS 1102W18	CAYUCOS 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CEDAR CREEK 11011656	CEDAR CREEK 1101	31.9504603		Shasta	Tier 2	FALSE	TRUE	TRUE
CEDAR CREEK 11011664	CEDAR CREEK 1101	29.10346708		Shasta	Tier 2	FALSE	TRUE	TRUE
CEDAR CREEK 1101451856	CEDAR CREEK 1101	0.054773649		Shasta	Tier 3	FALSE	TRUE	TRUE
CEDAR CREEK 1101CB	CEDAR CREEK 1101	48.57035303		Shasta	Tier 3	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
CELERON 1101CB	CELERON 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CHALLENGE 11015460	CHALLENGE 1101	31.83035305		Plumas	Tier 3	FALSE	TRUE	TRUE
CHALLENGE 1101CB	CHALLENGE 1101	16.4397842		Butte	Tier 3	FALSE	TRUE	TRUE
CHALLENGE 11021064	CHALLENGE 1102	19.4502745		Yuba	Tier 3	FALSE	TRUE	FALSE
CHALLENGE 11021902	CHALLENGE 1102	4.87017057		Yuba	Tier 3	FALSE	TRUE	FALSE
CHALLENGE 11025462	CHALLENGE 1102	23.24506853		Yuba	Tier 3	FALSE	TRUE	TRUE
CHALLENGE 1102CB	CHALLENGE 1102	15.31338224		Yuba	Tier 3	FALSE	TRUE	TRUE
CHANNEL 110111822	CHANNEL 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHANNEL 110111824	CHANNEL 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHANNEL 110148608	CHANNEL 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHANNEL 1101CB	CHANNEL 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHANNEL 110249982	CHANNEL 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHANNEL 1102CB	CHANNEL 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHARCA 11021192	CHARCA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CHARCA 1102345544	CHARCA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CHARCA 11024769	CHARCA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CHARCA 1102826046	CHARCA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CHARCA 1102CB	CHARCA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CHARCA 11033213	CHARCA 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CHARCA 11034333	CHARCA 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CHARCA 11034618	CHARCA 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CHARCA 1103CB	CHARCA 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CHARCA 1106252004	CHARCA 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CHARCA 11064326	CHARCA 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CHARCA 1106CB	CHARCA 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CHEROKEE 110159732	CHEROKEE 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHEROKEE 110175176	CHEROKEE 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHEROKEE 1101CB	CHEROKEE 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHEROKEE 110211666	CHEROKEE 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHEROKEE 110236802	CHEROKEE 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHEROKEE 110263488	CHEROKEE 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHEROKEE 110270772	CHEROKEE 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHEROKEE 1102CB	CHEROKEE 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CHESTER 1101656108	CHESTER 1101	0.445426787		Plumas	Tier 2	FALSE	TRUE	TRUE
CHESTER 1101922138	CHESTER 1101	1.628979317		Plumas	Tier 2	FALSE	TRUE	FALSE
CHESTER 1101CB	CHESTER 1101	0.049296801		Plumas	Tier 2	FALSE	TRUE	TRUE
CHESTER 11022564	CHESTER 1102	2.11349291		Plumas	Tier 2	TRUE	TRUE	FALSE
CHESTER 1102546744	CHESTER 1102	0.180740563		Plumas	Tier 2	FALSE	TRUE	TRUE
CHESTER 1102CB	CHESTER 1102	0.018498465		Plumas	Tier 2	FALSE	TRUE	TRUE
CHICO A 0401CB	CHICO A 0401	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO A 0402CB	CHICO A 0402	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO A 11012604	CHICO A 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO A 110156294	CHICO A 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO A 1101CB	CHICO A 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO A 110229504	CHICO A 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO A 110291814	CHICO A 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO A 1102CB	CHICO A 1102	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
CHICO A 1103CB	CHICO A 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO B 1101CB	CHICO B 1101	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
CHICO B 11032464	CHICO B 1103	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
CHICO B 1103CB	CHICO B 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO B 11052482	CHICO B 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO B 1105585536	CHICO B 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO B 1105CB	CHICO B 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO B 11062580	CHICO B 1106	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO B 1106CB	CHICO B 1106	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHICO C 0401CB	CHICO C 0401	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 11015939	CHOLAME 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 1101CB	CHOLAME 1101	0		San Luis Obispo	Non-HFTD	TRUE	TRUE	FALSE
CHOLAME 1101R22	CHOLAME 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 1101R96	CHOLAME 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 1101X12	CHOLAME 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 1101X14	CHOLAME 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 210210264	CHOLAME 2102	4.607503583		Monterey	Tier 2	TRUE	TRUE	FALSE
CHOLAME 2102127926	CHOLAME 2102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 210249414	CHOLAME 2102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 21025597	CHOLAME 2102	4.863184792		Monterey	Tier 2	FALSE	TRUE	TRUE
CHOLAME 2102796386	CHOLAME 2102	29.11770402		Monterey	Tier 2	TRUE	TRUE	TRUE
CHOLAME 2102867686	CHOLAME 2102	20.29010571		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
CHOLAME 2102CB	CHOLAME 2102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 2102X06	CHOLAME 2102	5.689451417		Monterey	Tier 2	FALSE	TRUE	TRUE
CHOLAME 2102X08	CHOLAME 2102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 2102X10	CHOLAME 2102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 2102X16	CHOLAME 2102	4.638962413		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 2102X18	CHOLAME 2102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 2102X20	CHOLAME 2102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 2102X22	CHOLAME 2102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOLAME 2102X24	CHOLAME 2102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 110111420	CHOWCHILLA 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 110139006	CHOWCHILLA 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 11015550	CHOWCHILLA 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 11016108	CHOWCHILLA 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 110184058	CHOWCHILLA 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 1101901360	CHOWCHILLA 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 1101CB	CHOWCHILLA 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 110286280	CHOWCHILLA 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 1102CB	CHOWCHILLA 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 110311490	CHOWCHILLA 1103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 110359800	CHOWCHILLA 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 11036160	CHOWCHILLA 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 11036180	CHOWCHILLA 1103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 1103CB	CHOWCHILLA 1103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 110411680	CHOWCHILLA 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 11045980	CHOWCHILLA 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 110466907	CHOWCHILLA 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 110483552	CHOWCHILLA 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 110490020	CHOWCHILLA 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 1104CB	CHOWCHILLA 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 110510650	CHOWCHILLA 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 110511590	CHOWCHILLA 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 1105CB	CHOWCHILLA 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
CHOWCHILLA 1106275318	CHOWCHILLA 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 1106652144	CHOWCHILLA 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 1106867748	CHOWCHILLA 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CHOWCHILLA 1106CB	CHOWCHILLA 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
CLARK ROAD 1101CB	CLARK ROAD 1101	0.017864075		Butte	Tier 2	FALSE	TRUE	TRUE
CLARK ROAD 11022044	CLARK ROAD 1102	7.924195036		Butte	Tier 2	TRUE	TRUE	FALSE
CLARK ROAD 11022068	CLARK ROAD 1102	10.87571054		Butte	Tier 3	TRUE	TRUE	TRUE
CLARK ROAD 11022070	CLARK ROAD 1102	0.171090849		Butte	Tier 2	FALSE	TRUE	TRUE
CLARK ROAD 1102212118	CLARK ROAD 1102	8.582009366		Butte	Tier 2	TRUE	TRUE	FALSE
CLARK ROAD 11022582	CLARK ROAD 1102	19.75787794		Butte	Tier 3	TRUE	TRUE	TRUE
CLARK ROAD 1102272950	CLARK ROAD 1102	6.78216305		Butte	Tier 3	TRUE	TRUE	TRUE
CLARK ROAD 1102407706	CLARK ROAD 1102	8.990142176		Butte	Tier 2	TRUE	TRUE	TRUE
CLARK ROAD 110247006	CLARK ROAD 1102	4.476763045		Butte	Tier 3	TRUE	TRUE	TRUE
CLARK ROAD 1102514690	CLARK ROAD 1102	3.410127969		Butte	Tier 2	TRUE	TRUE	TRUE
CLARK ROAD 110281296	CLARK ROAD 1102	2.643836931		Butte	Tier 2	TRUE	TRUE	TRUE
CLARK ROAD 110290548	CLARK ROAD 1102	17.32445777		Butte	Tier 3	TRUE	TRUE	TRUE
CLARK ROAD 110292622	CLARK ROAD 1102	30.97848182		Butte	Tier 2	TRUE	TRUE	FALSE
CLARK ROAD 1102CB	CLARK ROAD 1102	0.6414858		Butte	Tier 2	FALSE	TRUE	TRUE
CLARKSVILLE 210319572	CLARKSVILLE 2103	0.231106139		El Dorado	Tier 2	FALSE	TRUE	TRUE
CLARKSVILLE 210351564	CLARKSVILLE 2103	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLARKSVILLE 2103547420	CLARKSVILLE 2103	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLARKSVILLE 2103593454	CLARKSVILLE 2103	29.90341899		El Dorado	Tier 3	FALSE	TRUE	TRUE
CLARKSVILLE 21036842	CLARKSVILLE 2103	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLARKSVILLE 2103CB	CLARKSVILLE 2103	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLARKSVILLE 210413352	CLARKSVILLE 2104	32.73552915		El Dorado	Tier 3	FALSE	TRUE	TRUE
CLARKSVILLE 210419632	CLARKSVILLE 2104	5.151123203		El Dorado	Tier 3	FALSE	TRUE	TRUE
CLARKSVILLE 210419662	CLARKSVILLE 2104	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLARKSVILLE 210419772	CLARKSVILLE 2104	17.25623016		El Dorado	Tier 3	FALSE	TRUE	TRUE
CLARKSVILLE 2104432966	CLARKSVILLE 2104	0.396514971		El Dorado	Tier 2	FALSE	TRUE	TRUE
CLARKSVILLE 2104CB	CLARKSVILLE 2104	7.695270076		El Dorado	Tier 2	FALSE	TRUE	TRUE
CLARKSVILLE 2105385236	CLARKSVILLE 2105	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLARKSVILLE 210551478	CLARKSVILLE 2105	0.052524702		El Dorado	Tier 2	FALSE	TRUE	TRUE
CLARKSVILLE 210575884	CLARKSVILLE 2105	9.969601225		El Dorado	Tier 3	FALSE	TRUE	TRUE
CLARKSVILLE 2105CB	CLARKSVILLE 2105	0.522442867		El Dorado	Tier 2	FALSE	TRUE	TRUE
CLARKSVILLE 210619642	CLARKSVILLE 2106	0.469632049		El Dorado	Tier 2	FALSE	TRUE	TRUE
CLARKSVILLE 21066832	CLARKSVILLE 2106	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLARKSVILLE 2106CB	CLARKSVILLE 2106	0.014001768		El Dorado	Tier 2	FALSE	TRUE	TRUE
CLARKSVILLE 210951742	CLARKSVILLE 2109	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLARKSVILLE 210951744	CLARKSVILLE 2109	0.848411206		El Dorado	Tier 3	FALSE	TRUE	FALSE
CLARKSVILLE 210951796	CLARKSVILLE 2109	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLARKSVILLE 210955666	CLARKSVILLE 2109	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLARKSVILLE 21096502	CLARKSVILLE 2109	2.274817658		El Dorado	Tier 3	FALSE	TRUE	TRUE
CLARKSVILLE 2109CB	CLARKSVILLE 2109	0.824828318		El Dorado	Tier 3	FALSE	TRUE	TRUE
CLARKSVILLE 211011112	CLARKSVILLE 2110	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLARKSVILLE 211011142	CLARKSVILLE 2110	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLARKSVILLE 211019692	CLARKSVILLE 2110	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLARKSVILLE 2110CB	CLARKSVILLE 2110	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
CLAY 110113442	CLAY 1101	24.92808011		Amador	Tier 2	FALSE	TRUE	TRUE
CLAY 110113450	CLAY 1101	0.549401648		Amador	Tier 2	FALSE	TRUE	TRUE
CLAY 110184572	CLAY 1101	0.37339499		Amador	Tier 2	FALSE	TRUE	TRUE
CLAY 1101CB	CLAY 1101	0.472300004		Amador	Tier 2	FALSE	TRUE	TRUE
CLAY 11029999	CLAY 1102	0		Amador	Non-HFTD	FALSE	FALSE	FALSE
CLAY 1102CB	CLAY 1102	0.82097463		Amador	Tier 2	FALSE	TRUE	TRUE
CLAY 1102CUST	CLAY 1102	0		Amador	Non-HFTD	FALSE	FALSE	FALSE
CLAY 11031230	CLAY 1103	1.022530994		Amador	Tier 2	FALSE	TRUE	TRUE
CLAY 110314674	CLAY 1103	0		Amador	Non-HFTD	FALSE	FALSE	FALSE
CLAY 11031821	CLAY 1103	3.217574171		Amador	Tier 2	FALSE	TRUE	FALSE
CLAY 110334338	CLAY 1103	8.645642152		Amador	Tier 2	FALSE	TRUE	FALSE
CLAY 11035386	CLAY 1103	14.86694766		Amador	Tier 2	FALSE	TRUE	FALSE
CLAY 110359714	CLAY 1103	4.55535228		Amador	Tier 2	FALSE	TRUE	FALSE
CLAY 11037124	CLAY 1103	8.586346784		Amador	Tier 2	FALSE	TRUE	TRUE
CLAY 11037142	CLAY 1103	3.34019278		Amador	Tier 2	FALSE	TRUE	TRUE
CLAY 110398680	CLAY 1103	0.028954216		Amador	Tier 2	FALSE	TRUE	FALSE
CLAY 1103CB	CLAY 1103	5.421117161		Amador	Tier 2	FALSE	TRUE	TRUE
CLAYTON 110371340	CLAYTON 1103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 1103CB	CLAYTON 1103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 1104C550R	CLAYTON 1104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 1104CB	CLAYTON 1104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 2211CB	CLAYTON 2211	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 2212158138	CLAYTON 2212	0.471205387		Contra Costa	Tier 2	FALSE	TRUE	TRUE
CLAYTON 2212204416	CLAYTON 2212	11.80466252		Contra Costa	Tier 3	FALSE	TRUE	TRUE
CLAYTON 2212334476	CLAYTON 2212	0.031766487		Contra Costa	Tier 2	FALSE	TRUE	TRUE
CLAYTON 2212523764	CLAYTON 2212	0.024910671		Contra Costa	Tier 2	FALSE	TRUE	TRUE
CLAYTON 2212614950	CLAYTON 2212	0.639823		Contra Costa	Tier 3	FALSE	TRUE	TRUE
CLAYTON 2212681608	CLAYTON 2212	26.65444509		Contra Costa	Tier 3	FALSE	TRUE	TRUE
CLAYTON 221296224	CLAYTON 2212	7.687299214		Contra Costa	Tier 3	FALSE	TRUE	TRUE
CLAYTON 2212CB	CLAYTON 2212	0.301087698		Contra Costa	Tier 2	TRUE	TRUE	TRUE
CLAYTON 2213167700	CLAYTON 2213	2.487427044		Contra Costa	Tier 2	FALSE	TRUE	TRUE
CLAYTON 2213CB	CLAYTON 2213	0.026666999		Contra Costa	Tier 2	FALSE	TRUE	TRUE
CLAYTON 221442582	CLAYTON 2214	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 221465785	CLAYTON 2214	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 2214CB	CLAYTON 2214	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 2215184604	CLAYTON 2215	2.058575735		Contra Costa	Tier 2	FALSE	TRUE	TRUE
CLAYTON 2215500240	CLAYTON 2215	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 2215556215	CLAYTON 2215	1.393086891		Contra Costa	Tier 2	FALSE	TRUE	TRUE
CLAYTON 2215812394	CLAYTON 2215	2.074217088		Contra Costa	Tier 3	FALSE	TRUE	TRUE
CLAYTON 2215880066	CLAYTON 2215	2.660803422		Contra Costa	Tier 3	FALSE	TRUE	TRUE
CLAYTON 22159765	CLAYTON 2215	0.197451676		Contra Costa	Tier 2	FALSE	TRUE	TRUE
CLAYTON 2215CB	CLAYTON 2215	0.050139202		Contra Costa	Tier 2	FALSE	TRUE	TRUE
CLAYTON 2215W531R	CLAYTON 2215	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 2215W573R	CLAYTON 2215	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 2216C544R	CLAYTON 2216	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 2216CB	CLAYTON 2216	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 221714102	CLAYTON 2217	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 221738248	CLAYTON 2217	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 221798080	CLAYTON 2217	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 2217C500R	CLAYTON 2217	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 2217CB	CLAYTON 2217	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLAYTON 2218CB	CLAYTON 2218	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CLEAR LAKE 11011302	CLEAR LAKE 1101	6.66773866		Lake	Tier 2	FALSE	TRUE	TRUE
CLEAR LAKE 1101444	CLEAR LAKE 1101	0		Lake	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
CLEAR LAKE 110145252	CLEAR LAKE 1101	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
CLEAR LAKE 1101486	CLEAR LAKE 1101	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
CLEAR LAKE 1101529830	CLEAR LAKE 1101	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
CLEAR LAKE 1101699062	CLEAR LAKE 1101	0.309245309		Lake	Tier 2	FALSE	TRUE	TRUE
CLEAR LAKE 1101740076	CLEAR LAKE 1101	0.159888954		Lake	Tier 2	FALSE	TRUE	TRUE
CLEAR LAKE 110181976	CLEAR LAKE 1101	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
CLEAR LAKE 1101832686	CLEAR LAKE 1101	10.2194001		Lake	Tier 3	TRUE	TRUE	TRUE
CLEAR LAKE 1101881362	CLEAR LAKE 1101	0.02133959		Lake	Tier 2	FALSE	TRUE	TRUE
CLEAR LAKE 110192870	CLEAR LAKE 1101	0.055731604		Lake	Tier 2	FALSE	TRUE	TRUE
CLEAR LAKE 1101CB	CLEAR LAKE 1101	0.909941338		Lake	Tier 2	TRUE	TRUE	TRUE
CLEAR LAKE 1102223792	CLEAR LAKE 1102	0.795664201		Lake	Tier 2	FALSE	TRUE	FALSE
CLEAR LAKE 110237580	CLEAR LAKE 1102	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
CLEAR LAKE 110237582	CLEAR LAKE 1102	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
CLEAR LAKE 11024708	CLEAR LAKE 1102	0.249228024		Lake	Tier 2	FALSE	TRUE	TRUE
CLEAR LAKE 1102626634	CLEAR LAKE 1102	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
CLEAR LAKE 1102720	CLEAR LAKE 1102	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
CLEAR LAKE 1102904	CLEAR LAKE 1102	2.928949142		Lake	Tier 2	FALSE	TRUE	TRUE
CLEAR LAKE 1102CB	CLEAR LAKE 1102	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
CLOVERDALE 1101112	CLOVERDALE 1101	3.087959657		Sonoma	Tier 2	FALSE	TRUE	TRUE
CLOVERDALE 1101409224	CLOVERDALE 1101	0.153883939		Sonoma	Tier 2	FALSE	TRUE	FALSE
CLOVERDALE 1101474708	CLOVERDALE 1101	0.182818758		Sonoma	Tier 2	FALSE	TRUE	TRUE
CLOVERDALE 110184088	CLOVERDALE 1101	15.87927539		Sonoma	Tier 2	FALSE	TRUE	FALSE
CLOVERDALE 1101964556	CLOVERDALE 1101	5.155878538		Sonoma	Tier 2	FALSE	TRUE	TRUE
CLOVERDALE 1101CB	CLOVERDALE 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
CLOVERDALE 1102156	CLOVERDALE 1102	5.318094806		Sonoma	Tier 3	FALSE	TRUE	TRUE
CLOVERDALE 1102172096	CLOVERDALE 1102	0.071759353		Sonoma	Tier 2	FALSE	TRUE	TRUE
CLOVERDALE 1102262	CLOVERDALE 1102	0.84662346		Sonoma	Tier 3	FALSE	TRUE	TRUE
CLOVERDALE 1102307342	CLOVERDALE 1102	0.200659332		Sonoma	Tier 3	FALSE	TRUE	TRUE
CLOVERDALE 1102383183	CLOVERDALE 1102	13.92082305		Sonoma	Tier 2	FALSE	TRUE	TRUE
CLOVERDALE 1102429006	CLOVERDALE 1102	1.928170392		Sonoma	Tier 2	FALSE	TRUE	FALSE
CLOVERDALE 11024646	CLOVERDALE 1102	0.148767867		Sonoma	Tier 2	FALSE	TRUE	TRUE
CLOVERDALE 110247214	CLOVERDALE 1102	0.019381852		Sonoma	Tier 2	FALSE	TRUE	TRUE
CLOVERDALE 1102570	CLOVERDALE 1102	16.67166802		Sonoma	Tier 3	FALSE	TRUE	TRUE
CLOVERDALE 1102670	CLOVERDALE 1102	0.084824756		Sonoma	Tier 2	FALSE	TRUE	TRUE
CLOVERDALE 1102672	CLOVERDALE 1102	21.72729601		Sonoma	Tier 3	TRUE	TRUE	TRUE
CLOVERDALE 1102674	CLOVERDALE 1102	16.28747537		Mendocino	Tier 3	TRUE	TRUE	TRUE
CLOVERDALE 1102736078	CLOVERDALE 1102	0.177565962		Sonoma	Tier 2	FALSE	TRUE	FALSE
CLOVERDALE 110276878	CLOVERDALE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
CLOVERDALE 1102801904	CLOVERDALE 1102	0.032240632		Sonoma	Tier 2	FALSE	TRUE	TRUE
CLOVERDALE 110282888	CLOVERDALE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
CLOVERDALE 110294476	CLOVERDALE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
CLOVERDALE 1102CB	CLOVERDALE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 1101CB	CLOVIS 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 110265614	CLOVIS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 110285140	CLOVIS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 1102CB	CLOVIS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 1103CB	CLOVIS 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 1104CB	CLOVIS 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 110599912	CLOVIS 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 1105CB	CLOVIS 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 1106CB	CLOVIS 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 1107CB	CLOVIS 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 1108402640	CLOVIS 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 1108CB	CLOVIS 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 210958802	CLOVIS 2109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 210992532	CLOVIS 2109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 2109CB	CLOVIS 2109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 211084702	CLOVIS 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 2110CB	CLOVIS 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 2110R3070	CLOVIS 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 211138752	CLOVIS 2111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 211138754	CLOVIS 2111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CLOVIS 2111CB	CLOVIS 2111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
CMC 1101CB	CMC 1101	2.007186449		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
CMC 1102CB	CMC 1102	0.469198216		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
CMC 1102CUS6960	CMC 1102	0.013636379		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
COALINGA NO 1 1106CB	COALINGA NO 1 1106	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
COALINGA NO 1 1107CB	COALINGA NO 1 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 1 110878186	COALINGA NO 1 1108	36.0684842		Fresno	Non-HFTD	TRUE	TRUE	TRUE
COALINGA NO 1 11089080	COALINGA NO 1 1108	3.534359477		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 1 11089240	COALINGA NO 1 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 1 11089714F	COALINGA NO 1 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 1 11089850	COALINGA NO 1 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 1 11089860	COALINGA NO 1 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 1 1108CB	COALINGA NO 1 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 1 1109696152	COALINGA NO 1 1109	7.753756549		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 1 11099210	COALINGA NO 1 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 1 11099270	COALINGA NO 1 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 1 11099870	COALINGA NO 1 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 1 1109CB	COALINGA NO 1 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 1104CB	COALINGA NO 2 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 1105134928	COALINGA NO 2 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 110541882	COALINGA NO 2 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 110541954	COALINGA NO 2 1105	14.48724969		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 1105897858	COALINGA NO 2 1105	3.365605607		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 11059000	COALINGA NO 2 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 11059260	COALINGA NO 2 1105	17.7641055		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 1105CB	COALINGA NO 2 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 110677252	COALINGA NO 2 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 11069150	COALINGA NO 2 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 1106CB	COALINGA NO 2 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 110770250	COALINGA NO 2 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 1107793144	COALINGA NO 2 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COALINGA NO 2 1107CB	COALINGA NO 2 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COARSEGOLD 210210040	COARSEGOLD 2102	20.45025539		Madera	Tier 3	FALSE	TRUE	TRUE
COARSEGOLD 210210050	COARSEGOLD 2102	7.051015961		Madera	Tier 3	FALSE	TRUE	TRUE
COARSEGOLD 210210330	COARSEGOLD 2102	9.763875664		Madera	Tier 3	FALSE	TRUE	TRUE
COARSEGOLD 210210610	COARSEGOLD 2102	5.276147411		Madera	Tier 3	FALSE	TRUE	FALSE
COARSEGOLD 2102383092	COARSEGOLD 2102	0.321354187		Madera	Tier 3	FALSE	TRUE	TRUE
COARSEGOLD 21025380	COARSEGOLD 2102	14.1468251		Madera	Tier 3	FALSE	TRUE	TRUE
COARSEGOLD 21025722	COARSEGOLD 2102	1.93281626		Madera	Tier 3	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
COARSEGOLD 2102CB	COARSEGOLD 2102	14.04254868		Madera	Tier 3	FALSE	TRUE	TRUE
COARSEGOLD 210310300	COARSEGOLD 2103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
COARSEGOLD 21035020	COARSEGOLD 2103	16.01068943		Madera	Tier 2	FALSE	TRUE	TRUE
COARSEGOLD 21036110	COARSEGOLD 2103	10.46559483		Madera	Tier 2	FALSE	TRUE	TRUE
COARSEGOLD 2103731524	COARSEGOLD 2103	28.38343413		Madera	Tier 2	FALSE	TRUE	TRUE
COARSEGOLD 2103CB	COARSEGOLD 2103	38.43548645		Madera	Tier 2	FALSE	TRUE	TRUE
COARSEGOLD 210410030	COARSEGOLD 2104	33.29799831		Madera	Tier 2	FALSE	TRUE	FALSE
COARSEGOLD 210410110	COARSEGOLD 2104	49.26672713		Madera	Tier 3	FALSE	TRUE	TRUE
COARSEGOLD 210410400	COARSEGOLD 2104	41.98861393		Madera	Tier 2	FALSE	TRUE	TRUE
COARSEGOLD 21045525	COARSEGOLD 2104	12.84240412		Madera	Tier 2	FALSE	TRUE	TRUE
COARSEGOLD 2104570682	COARSEGOLD 2104	2.129690096		Madera	Tier 2	FALSE	TRUE	TRUE
COARSEGOLD 21046210	COARSEGOLD 2104	10.71859934		Madera	Tier 2	FALSE	TRUE	TRUE
COARSEGOLD 2104828842	COARSEGOLD 2104	28.37645026		Madera	Tier 2	FALSE	TRUE	TRUE
COARSEGOLD 210490356	COARSEGOLD 2104	4.628866894		Madera	Tier 2	FALSE	TRUE	TRUE
COARSEGOLD 2104905960	COARSEGOLD 2104	55.69202945		Madera	Tier 2	FALSE	TRUE	TRUE
COARSEGOLD 2104CB	COARSEGOLD 2104	8.251736221		Madera	Tier 2	FALSE	TRUE	TRUE
COLONY 1101CB	COLONY 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COLONY 110214022	COLONY 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COLONY 110236728	COLONY 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COLONY 1102CB	COLONY 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COLUMBIA HILL 11012212	COLUMBIA HILL 1101	8.449067873		Nevada	Tier 3	FALSE	TRUE	TRUE
COLUMBIA HILL 110135424	COLUMBIA HILL 1101	13.89253322		Nevada	Tier 3	FALSE	TRUE	TRUE
COLUMBIA HILL 1101764	COLUMBIA HILL 1101	14.70284271		Nevada	Tier 3	FALSE	TRUE	TRUE
COLUMBIA HILL 110190730	COLUMBIA HILL 1101	7.159502357		Nevada	Tier 2	FALSE	TRUE	TRUE
COLUMBIA HILL 1101CB	COLUMBIA HILL 1101	45.34890354		Nevada	Tier 3	TRUE	TRUE	TRUE
COLUMBUS 1103CB	COLUMBUS 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 11048058	COLUMBUS 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 1104CB	COLUMBUS 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 11051767	COLUMBUS 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 11054055	COLUMBUS 1105	0		Kern	Non-HFTD	TRUE	TRUE	FALSE
COLUMBUS 11054059	COLUMBUS 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 1105CB	COLUMBUS 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 110614325	COLUMBUS 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 1106CB	COLUMBUS 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 11093953	COLUMBUS 1109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 11094443	COLUMBUS 1109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 1109CB	COLUMBUS 1109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 1109CUS3980	COLUMBUS 1109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 11101307	COLUMBUS 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 111077274	COLUMBUS 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUMBUS 1110CB	COLUMBUS 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 1100CB	COLUSA 1100	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 1101137302	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 11013012	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 110130252	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 110130272	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 11013504	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 11013529	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 11013537	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 11013557	COLUSA 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 110137640	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 110141792	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 110144168	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 1101519450	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 110167052	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 110167508	COLUSA 1101	0		Colusa	Non-HFTD	TRUE	TRUE	FALSE
COLUSA 110179406	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 1101929414	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 110195060	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA 1101CB	COLUSA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA JUNCTION 11013010	COLUSA JUNCTION 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA JUNCTION 110159926	COLUSA JUNCTION 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COLUSA JUNCTION 1101CB	COLUSA JUNCTION 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
CONCORD NO 1 040165618	CONCORD NO 1 0401	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONCORD NO 1 0401CB	CONCORD NO 1 0401	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONCORD NO 1 0402CB	CONCORD NO 1 0402	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 210313962	CONTRA COSTA 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 21032212	CONTRA COSTA 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2103304858	CONTRA COSTA 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 210338886	CONTRA COSTA 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2103435976	CONTRA COSTA 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 210348208	CONTRA COSTA 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 210375878	CONTRA COSTA 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 210378825	CONTRA COSTA 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2103CB	CONTRA COSTA 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2104A505R	CONTRA COSTA 2104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2104CB	CONTRA COSTA 2104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2105CB	CONTRA COSTA 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2106CB	CONTRA COSTA 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 210749724	CONTRA COSTA 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2107825994	CONTRA COSTA 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 210788664	CONTRA COSTA 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2107CB	CONTRA COSTA 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2107K526R	CONTRA COSTA 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2108CB	CONTRA COSTA 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 210929718	CONTRA COSTA 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 210963935	CONTRA COSTA 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 210974988	CONTRA COSTA 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2109827875	CONTRA COSTA 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2109CB	CONTRA COSTA 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2110CB	CONTRA COSTA 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2112CB	CONTRA COSTA 2112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 211375910	CONTRA COSTA 2113	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2113CB	CONTRA COSTA 2113	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 211496897	CONTRA COSTA 2114	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2114CB	CONTRA COSTA 2114	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 211521471	CONTRA COSTA 2115	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2115CB	CONTRA COSTA 2115	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 211639010	CONTRA COSTA 2116	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2116A548R	CONTRA COSTA 2116	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
CONTRA COSTA 2116CB	CONTRA COSTA 2116	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
COPPERMINE 110438474	COPPERMINE 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COPPERMINE 1104556430	COPPERMINE 1104	7.235971024		Fresno	Tier 2	FALSE	TRUE	FALSE
COPPERMINE 1104613086	COPPERMINE 1104	7.280002464		Fresno	Tier 2	FALSE	TRUE	FALSE
COPPERMINE 110496648	COPPERMINE 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COPPERMINE 1104CB	COPPERMINE 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COPPERMINE 1104R3170	COPPERMINE 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COPPERMINE 1104R3200	COPPERMINE 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COPPERMINE 1104R755	COPPERMINE 1104	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
COPPERMINE 1106CB	COPPERMINE 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COPPERMINE 1112CB	COPPERMINE 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COPPERMINE 2110CB	COPPERMINE 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
COPUS 11022399	COPUS 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COPUS 1102CB	COPUS 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COPUS 11034801	COPUS 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COPUS 1103CB	COPUS 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COPUS 11041447	COPUS 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COPUS 11043551	COPUS 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
COPUS 1104CB	COPUS 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1101CB	CORCORAN 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1102CB	CORCORAN 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1104149336	CORCORAN 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 11048150	CORCORAN 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1104996334	CORCORAN 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1104CB	CORCORAN 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1106176636	CORCORAN 1106	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1106258236	CORCORAN 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1106339194	CORCORAN 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 110644316	CORCORAN 1106	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1106936848	CORCORAN 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1106CB	CORCORAN 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 11082052F	CORCORAN 1108	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 110837412	CORCORAN 1108	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1108954978	CORCORAN 1108	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1108CB	CORCORAN 1108	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1112714124	CORCORAN 1112	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 111285080	CORCORAN 1112	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1112855122	CORCORAN 1112	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 111288132	CORCORAN 1112	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1112CB	CORCORAN 1112	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1116436137	CORCORAN 1116	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1116472331	CORCORAN 1116	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1116497218	CORCORAN 1116	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1116630954	CORCORAN 1116	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 111677788	CORCORAN 1116	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1116CB	CORCORAN 1116	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1116CUS7482	CORCORAN 1116	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1116CUST	CORCORAN 1116	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1117CB	CORCORAN 1117	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1118281454	CORCORAN 1118	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 11188170	CORCORAN 1118	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 11188180	CORCORAN 1118	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
CORCORAN 1118CB	CORCORAN 1118	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
CORDELIA 1101CB	CORDELIA 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CORDELIA 1102CB	CORDELIA 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CORDELIA 1104359592	CORDELIA 1104	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
CORDELIA 110440922	CORDELIA 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CORDELIA 110448536	CORDELIA 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CORDELIA 11048772	CORDELIA 1104	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
CORDELIA 1104CB	CORDELIA 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CORDELIA 111013382	CORDELIA 1110	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CORDELIA 111015722	CORDELIA 1110	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CORDELIA 1110965712	CORDELIA 1110	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CORDELIA 1110CB	CORDELIA 1110	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CORDELIA 111240402	CORDELIA 1112	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CORDELIA 11128832	CORDELIA 1112	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CORDELIA 1112CB	CORDELIA 1112	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
CORNING 11011440	CORNING 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 11011620	CORNING 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 11011624	CORNING 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110135974	CORNING 1101	0.102738678		Tehama	Tier 2	FALSE	TRUE	TRUE
CORNING 110146022	CORNING 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110154906	CORNING 1101	0		Tehama	Non-HFTD	TRUE	TRUE	FALSE
CORNING 110164090	CORNING 1101	13.6390149		Tehama	Tier 2	FALSE	TRUE	TRUE
CORNING 110164132	CORNING 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110182846	CORNING 1101	4.653243486		Tehama	Tier 2	FALSE	TRUE	TRUE
CORNING 110185122	CORNING 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110185152	CORNING 1101	23.06807002		Tehama	Tier 2	TRUE	TRUE	TRUE
CORNING 110185162	CORNING 1101	5.759376495		Tehama	Tier 2	FALSE	TRUE	TRUE
CORNING 110187304	CORNING 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110193362	CORNING 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 1101972454	CORNING 1101	2.308096051		Tehama	Tier 2	FALSE	TRUE	TRUE
CORNING 1101CB	CORNING 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 11021460	CORNING 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 11021622	CORNING 1102	34.89311461		Tehama	Tier 2	TRUE	TRUE	TRUE
CORNING 11021666	CORNING 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 11021900	CORNING 1102	0		Tehama	Non-HFTD	TRUE	TRUE	FALSE
CORNING 110237396	CORNING 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110237398	CORNING 1102	0		Tehama	Non-HFTD	TRUE	TRUE	FALSE
CORNING 110237400	CORNING 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110238162	CORNING 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110253184	CORNING 1102	16.27230924		Tehama	Tier 2	FALSE	TRUE	TRUE
CORNING 110255208	CORNING 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 1102801546	CORNING 1102	15.63356216		Tehama	Tier 2	FALSE	TRUE	TRUE
CORNING 110283910	CORNING 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 1102861542	CORNING 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110290036	CORNING 1102	12.32485059		Tehama	Tier 2	FALSE	TRUE	TRUE
CORNING 1102915324	CORNING 1102	1.875523623		Tehama	Tier 2	FALSE	TRUE	TRUE
CORNING 1102CB	CORNING 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 11031368	CORNING 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 11031628	CORNING 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110337546	CORNING 1103	0		Tehama	Non-HFTD	TRUE	TRUE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
CORNING 110349740	CORNING 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110366390	CORNING 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110368304	CORNING 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 1103CB	CORNING 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 11041498	CORNING 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 11041706	CORNING 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 11043304	CORNING 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110437508	CORNING 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110466230	CORNING 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110485182	CORNING 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 110485336	CORNING 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 1104905234	CORNING 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORNING 1104CB	CORNING 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
CORONA 1101248	CORONA 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
CORONA 110137424	CORONA 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
CORONA 1101CB	CORONA 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
CORONA 1102CB	CORONA 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
CORONA 1103176	CORONA 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
CORONA 11034446	CORONA 1103	0.246640614		Sonoma	Tier 2	FALSE	TRUE	TRUE
CORONA 1103776806	CORONA 1103	0.212276915		Sonoma	Tier 2	FALSE	TRUE	FALSE
CORONA 1103CB	CORONA 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
CORRAL 110112304	CORRAL 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CORRAL 110112606	CORRAL 1101	22.32860321		Calaveras	Tier 2	FALSE	TRUE	FALSE
CORRAL 110112612	CORRAL 1101	19.07382431		Calaveras	Tier 2	FALSE	TRUE	TRUE
CORRAL 1101173174	CORRAL 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CORRAL 11012128	CORRAL 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CORRAL 110133616	CORRAL 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CORRAL 110136652	CORRAL 1101	36.17544306		Calaveras	Tier 2	FALSE	TRUE	FALSE
CORRAL 1101639614	CORRAL 1101	16.48784696		Calaveras	Tier 2	FALSE	TRUE	FALSE
CORRAL 110175204	CORRAL 1101	0.169640899		San Joaquin	Tier 2	FALSE	TRUE	TRUE
CORRAL 1101CB	CORRAL 1101	25.72507888		Calaveras	Tier 2	FALSE	TRUE	TRUE
CORRAL 1101CUS9215	CORRAL 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
CORRAL 1101D1495	CORRAL 1101	0		Calaveras	Non-HFTD	FALSE	FALSE	FALSE
CORRAL 110213498	CORRAL 1102	0.857531852		Calaveras	Tier 2	FALSE	TRUE	TRUE
CORRAL 110214026	CORRAL 1102	10.45330158		Calaveras	Tier 2	FALSE	TRUE	FALSE
CORRAL 110214028	CORRAL 1102	6.993900537		Calaveras	Tier 2	FALSE	TRUE	TRUE
CORRAL 110236666	CORRAL 1102	18.07076628		Calaveras	Tier 2	FALSE	TRUE	FALSE
CORRAL 110275622	CORRAL 1102	5.271771172		Calaveras	Tier 2	FALSE	TRUE	FALSE
CORRAL 1102CB	CORRAL 1102	16.14048082		Calaveras	Tier 2	FALSE	TRUE	TRUE
CORRAL 110313474	CORRAL 1103	2.351053233		Calaveras	Tier 2	FALSE	TRUE	TRUE
CORRAL 110314716	CORRAL 1103	0		Calaveras	Non-HFTD	FALSE	FALSE	FALSE
CORRAL 110336680	CORRAL 1103	18.27148428		Calaveras	Tier 2	FALSE	TRUE	TRUE
CORRAL 110359770	CORRAL 1103	4.146819582		Calaveras	Tier 2	FALSE	TRUE	FALSE
CORRAL 1103936674	CORRAL 1103	0.399842148		Calaveras	Tier 2	FALSE	TRUE	TRUE
CORRAL 1103CB	CORRAL 1103	2.269799184		Calaveras	Tier 2	FALSE	TRUE	TRUE
CORTINA 1101107710	CORTINA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
CORTINA 110130006	CORTINA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
CORTINA 110130014	CORTINA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
CORTINA 110130016	CORTINA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
CORTINA 110130192	CORTINA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
CORTINA 110130262	CORTINA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
CORTINA 11013056	CORTINA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
CORTINA 11013058	CORTINA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
CORTINA 110137554	CORTINA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
CORTINA 110149858	CORTINA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
CORTINA 110189686	CORTINA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
CORTINA 1101CB	CORTINA 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
COTATI 1102282	COTATI 1102	6.456610617		Sonoma	Tier 2	FALSE	TRUE	FALSE
COTATI 1102462	COTATI 1102	2.764107432		Sonoma	Tier 2	FALSE	TRUE	TRUE
COTATI 1102464	COTATI 1102	1.902757477		Sonoma	Tier 2	FALSE	TRUE	TRUE
COTATI 1102468	COTATI 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
COTATI 11025080	COTATI 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
COTATI 110257108	COTATI 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
COTATI 110259258	COTATI 1102	2.437526872		Sonoma	Tier 2	FALSE	TRUE	FALSE
COTATI 1102825	COTATI 1102	0.36294288		Sonoma	Tier 2	FALSE	TRUE	TRUE
COTATI 110283200	COTATI 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
COTATI 1102CB	COTATI 1102	1.677598119		Sonoma	Tier 2	FALSE	TRUE	TRUE
COTATI 1103132	COTATI 1103	25.31271191		Marin	Tier 2	FALSE	TRUE	TRUE
COTATI 1103148	COTATI 1103	14.80271503		Marin	Tier 2	FALSE	TRUE	FALSE
COTATI 1103252	COTATI 1103	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
COTATI 1103310	COTATI 1103	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
COTATI 110361736	COTATI 1103	11.06921987		Marin	Tier 2	FALSE	TRUE	TRUE
COTATI 110379140	COTATI 1103	9.621579795		Sonoma	Tier 2	FALSE	TRUE	FALSE
COTATI 110387402	COTATI 1103	11.20476295		Marin	Tier 2	FALSE	TRUE	FALSE
COTATI 1103CB	COTATI 1103	12.07605813		Sonoma	Tier 2	FALSE	TRUE	TRUE
COTATI 1104232	COTATI 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
COTATI 1104426	COTATI 1104	1.876611892		Sonoma	Tier 2	FALSE	TRUE	TRUE
COTATI 110475972	COTATI 1104	3.092208817		Sonoma	Tier 2	FALSE	TRUE	FALSE
COTATI 110494186	COTATI 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
COTATI 1104CB	COTATI 1104	3.464509905		Sonoma	Tier 2	TRUE	TRUE	TRUE
COTATI 1105103816	COTATI 1105	2.023195015		Sonoma	Tier 2	FALSE	TRUE	FALSE
COTATI 1105104502	COTATI 1105	2.084005392		Sonoma	Tier 2	FALSE	TRUE	FALSE
COTATI 1105136	COTATI 1105	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
COTATI 11052121	COTATI 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
COTATI 1105213984	COTATI 1105	4.533021802		Sonoma	Tier 2	FALSE	TRUE	FALSE
COTATI 1105328	COTATI 1105	1.183845349		Sonoma	Tier 2	FALSE	TRUE	TRUE
COTATI 110536536	COTATI 1105	15.59639864		Sonoma	Tier 2	FALSE	TRUE	TRUE
COTATI 11055156	COTATI 1105	4.538042138		Sonoma	Tier 2	FALSE	TRUE	TRUE
COTATI 1105616	COTATI 1105	2.453610013		Sonoma	Tier 2	FALSE	TRUE	TRUE
COTATI 1105701873	COTATI 1105	0.487026831		Sonoma	Tier 2	FALSE	TRUE	FALSE
COTATI 110578286	COTATI 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
COTATI 1105844060	COTATI 1105	2.235093147		Sonoma	Tier 2	FALSE	TRUE	FALSE
COTATI 11058459	COTATI 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
COTATI 1105893	COTATI 1105	0.069848486		Sonoma	Tier 2	FALSE	TRUE	TRUE
COTATI 110599720	COTATI 1105	6.839289936		Sonoma	Tier 2	FALSE	TRUE	FALSE
COTATI 1105CB	COTATI 1105	0.730607785		Sonoma	Tier 2	FALSE	TRUE	TRUE
COTTLE 1701246168	COTTLE 1701	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 170139546	COTTLE 1701	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 170144183	COTTLE 1701	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 170149704	COTTLE 1701	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1701498444	COTTLE 1701	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
COTTLE 170178452	COTTLE 1701	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 170194082	COTTLE 1701	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1701CB	COTTLE 1701	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1702526442	COTTLE 1702	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 17026318	COTTLE 1702	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1702704450	COTTLE 1702	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1702813762	COTTLE 1702	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 17029890	COTTLE 1702	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1702CB	COTTLE 1702	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 17033292	COTTLE 1703	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1703CB	COTTLE 1703	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1704219228	COTTLE 1704	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 170426578	COTTLE 1704	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1704795368	COTTLE 1704	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 170490360	COTTLE 1704	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 17049160	COTTLE 1704	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1704CB	COTTLE 1704	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 17073290	COTTLE 1707	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1707376892	COTTLE 1707	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1707380150	COTTLE 1707	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1707496160	COTTLE 1707	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 17079840	COTTLE 1707	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1707CB	COTTLE 1707	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 17086229	COTTLE 1708	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1708728510	COTTLE 1708	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 17089290	COTTLE 1708	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1708968888	COTTLE 1708	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 17089860	COTTLE 1708	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTLE 1708CB	COTTLE 1708	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
COTTONWOOD 11011510	COTTONWOOD 1101	0.320335406		Shasta	Tier 2	FALSE	TRUE	TRUE
COTTONWOOD 11011610	COTTONWOOD 1101	37.84052768		Tehama	Tier 2	FALSE	TRUE	FALSE
COTTONWOOD 110131500	COTTONWOOD 1101	3.795956186		Tehama	Tier 2	FALSE	TRUE	TRUE
COTTONWOOD 1101384360	COTTONWOOD 1101	4.641581728		Shasta	Tier 2	FALSE	TRUE	TRUE
COTTONWOOD 110168190	COTTONWOOD 1101	23.40019121		Tehama	Tier 2	FALSE	TRUE	TRUE
COTTONWOOD 1101CB	COTTONWOOD 1101	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
COTTONWOOD 11021578	COTTONWOOD 1102	27.71100031		Shasta	Tier 2	FALSE	TRUE	TRUE
COTTONWOOD 1102306414	COTTONWOOD 1102	11.08827752		Shasta	Tier 2	FALSE	TRUE	FALSE
COTTONWOOD 1102544790	COTTONWOOD 1102	5.186462926		Shasta	Tier 2	FALSE	TRUE	TRUE
COTTONWOOD 1102690508	COTTONWOOD 1102	11.54791115		Shasta	Tier 2	FALSE	TRUE	TRUE
COTTONWOOD 11029026	COTTONWOOD 1102	0.273253434		Shasta	Tier 2	FALSE	TRUE	TRUE
COTTONWOOD 1102CB	COTTONWOOD 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
COTTONWOOD 11031344	COTTONWOOD 1103	9.83068267		Tehama	Tier 2	FALSE	TRUE	TRUE
COTTONWOOD 11031348	COTTONWOOD 1103	28.63817035		Tehama	Tier 2	TRUE	TRUE	TRUE
COTTONWOOD 11031508	COTTONWOOD 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
COTTONWOOD 11031616	COTTONWOOD 1103	46.60749386		Tehama	Tier 2	FALSE	TRUE	FALSE
COTTONWOOD 110331548	COTTONWOOD 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
COTTONWOOD 110335470	COTTONWOOD 1103	17.35237075		Tehama	Tier 2	FALSE	TRUE	TRUE
COTTONWOOD 1103389928	COTTONWOOD 1103	0.712694476		Tehama	Tier 2	FALSE	TRUE	TRUE
COTTONWOOD 110359128	COTTONWOOD 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
COTTONWOOD 1103732932	COTTONWOOD 1103	0.493543169		Tehama	Tier 2	FALSE	TRUE	FALSE
COTTONWOOD 110385050	COTTONWOOD 1103	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
COTTONWOOD 11039072	COTTONWOOD 1103	28.65949348		Tehama	Tier 2	FALSE	TRUE	FALSE
COTTONWOOD 1103957942	COTTONWOOD 1103	1.577779673		Tehama	Tier 2	FALSE	TRUE	FALSE
COTTONWOOD 1103CB	COTTONWOOD 1103	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
COUNTRY CLUB 0401CB	COUNTRY CLUB 0401	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COUNTRY CLUB 0402CB	COUNTRY CLUB 0402	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COUNTRY CLUB 0403CB	COUNTRY CLUB 0403	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COUNTRY CLUB 110173018	COUNTRY CLUB 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COUNTRY CLUB 1101CB	COUNTRY CLUB 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COUNTRY CLUB 1102CB	COUNTRY CLUB 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COUNTRY CLUB 110314257	COUNTRY CLUB 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COUNTRY CLUB 1103CB	COUNTRY CLUB 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COUNTRY CLUB 1104CB	COUNTRY CLUB 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COUNTRY CLUB 1105CB	COUNTRY CLUB 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COUNTRY CLUB 1106CB	COUNTRY CLUB 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
COVELO 1101112804	COVELO 1101	19.1097527		Mendocino	Tier 2	FALSE	TRUE	TRUE
COVELO 1101225458	COVELO 1101	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
COVELO 11012467	COVELO 1101	0.042914114		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
COVELO 110137328	COVELO 1101	2.928510479		Mendocino	Tier 2	FALSE	TRUE	TRUE
COVELO 1101430286	COVELO 1101	5.517400238		Mendocino	Tier 2	FALSE	TRUE	FALSE
COVELO 110146208	COVELO 1101	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
COVELO 11014678	COVELO 1101	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
COVELO 1101516510	COVELO 1101	7.048283911		Mendocino	Tier 2	FALSE	TRUE	TRUE
COVELO 1101536	COVELO 1101	3.281356015		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
COVELO 1101562360	COVELO 1101	10.90527151		Mendocino	Tier 2	FALSE	TRUE	TRUE
COVELO 1101664688	COVELO 1101	0.433841746		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
COVELO 1101679050	COVELO 1101	0.750801295		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
COVELO 1101694140	COVELO 1101	0.602431113		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
COVELO 110196896	COVELO 1101	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
COVELO 1101CB	COVELO 1101	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
CRESCENT MILLS 21012056	CRESCENT MILLS 2101	3.962998264		Plumas	Tier 2	TRUE	TRUE	TRUE
CRESCENT MILLS 21012230	CRESCENT MILLS 2101	5.57716104		Plumas	Tier 2	TRUE	TRUE	TRUE
CRESCENT MILLS 21012232	CRESCENT MILLS 2101	14.55890256		Plumas	Tier 2	TRUE	TRUE	FALSE
CRESCENT MILLS 21012562	CRESCENT MILLS 2101	15.40010264		Plumas	Tier 2	TRUE	TRUE	TRUE
CRESCENT MILLS 2101CB	CRESCENT MILLS 2101	3.136583312		Plumas	Tier 2	TRUE	TRUE	TRUE
CRESSEY 2103119560	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 2103335764	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 210337008	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 210337010	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 2103421930	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 21034220	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 21034350	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 2103505894	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 2103593420	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 2103596130	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 21037022	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 21037170	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 21039370	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 21039390	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 210396596	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 2103CB	CRESSEY 2103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
CRESSEY 2104104770	CRESSEY 2104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 210453374	CRESSEY 2104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 2104551990	CRESSEY 2104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 210464194	CRESSEY 2104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 21049410	CRESSEY 2104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 21049440	CRESSEY 2104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 2104947844	CRESSEY 2104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 21049880	CRESSEY 2104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESSEY 2104CB	CRESSEY 2104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
CRESTA 1101103126	CRESTA 1101	0.807521025		Butte	Tier 3	TRUE	TRUE	TRUE
CRESTA 1101546650	CRESTA 1101	0.896748348		Butte	Tier 3	TRUE	TRUE	TRUE
CROWS LANDING 110164846	CROWS LANDING 1101	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
CROWS LANDING 110190590	CROWS LANDING 1101	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
CROWS LANDING 110190600	CROWS LANDING 1101	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
CROWS LANDING 1101CB	CROWS LANDING 1101	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
CROWS LANDING 1102CB	CROWS LANDING 1102	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
CURTIS 1701842008	CURTIS 1701	0.690992437		Tuolumne	Tier 2	FALSE	TRUE	FALSE
CURTIS 170190120	CURTIS 1701	1.941672929		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 17019230	CURTIS 1701	2.201394301		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 1701CB	CURTIS 1701	7.398311652		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 170210940	CURTIS 1702	8.47412662		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 1702295684	CURTIS 1702	10.80337433		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 170234426	CURTIS 1702	4.314927615		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 170247488	CURTIS 1702	18.60868598		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 17026008	CURTIS 1702	23.08081094		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 170268380	CURTIS 1702	8.449188008		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 17028000	CURTIS 1702	14.13048272		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 1702CB	CURTIS 1702	21.78494586		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 1703258550	CURTIS 1703	8.10671263		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 170349746	CURTIS 1703	0.310979427		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 17036064	CURTIS 1703	18.72188168		Tuolumne	Tier 2	FALSE	TRUE	FALSE
CURTIS 170384944	CURTIS 1703	57.361823		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 170390320	CURTIS 1703	27.88750274		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 17039210	CURTIS 1703	21.78684855		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 17039240	CURTIS 1703	10.90776297		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 17039330	CURTIS 1703	40.75958188		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 1703CB	CURTIS 1703	8.885974592		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 170411290	CURTIS 1704	7.981741147		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 170411300	CURTIS 1704	3.535000265		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 17046060	CURTIS 1704	4.00182525		Tuolumne	Tier 2	TRUE	TRUE	TRUE
CURTIS 170463502	CURTIS 1704	10.55035509		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 17048140	CURTIS 1704	35.67863653		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 1704CB	CURTIS 1704	13.71435677		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 170510590	CURTIS 1705	16.09345388		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 170511790	CURTIS 1705	0.012364678		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 170539256	CURTIS 1705	26.10597748		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 170565908	CURTIS 1705	13.53567591		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CURTIS 17058110	CURTIS 1705	7.931144119		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 17058170	CURTIS 1705	7.541394971		Tuolumne	Tier 3	FALSE	TRUE	TRUE
CURTIS 1705CB	CURTIS 1705	12.94488374		Tuolumne	Tier 2	FALSE	TRUE	TRUE
CUYAMA 11031635	CUYAMA 1103	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
CUYAMA 1103282557	CUYAMA 1103	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
CUYAMA 1103622728	CUYAMA 1103	14.2735576		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CUYAMA 1103684566	CUYAMA 1103	2.577408633		Santa Barbara	Tier 2	TRUE	TRUE	TRUE
CUYAMA 1103934590	CUYAMA 1103	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
CUYAMA 1103CB	CUYAMA 1103	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
CUYAMA 1104CB	CUYAMA 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
CUYAMA 21013039	CUYAMA 2101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
CUYAMA 21013533	CUYAMA 2101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
CUYAMA 21013542	CUYAMA 2101	3.386134246		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
CUYAMA 2101952122	CUYAMA 2101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
CUYAMA 2101CB	CUYAMA 2101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
CUYAMA 21021000	CUYAMA 2102	4.05885645		Kern	Non-HFTD	FALSE	FALSE	FALSE
CUYAMA 2102CB	CUYAMA 2102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1102379160	DAIRYLAND 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 11025570	DAIRYLAND 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 110268372	DAIRYLAND 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 110268650	DAIRYLAND 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 110293892	DAIRYLAND 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1102967172	DAIRYLAND 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1102CB	DAIRYLAND 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1105306810	DAIRYLAND 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1105410364	DAIRYLAND 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1105422500	DAIRYLAND 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 11055170	DAIRYLAND 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 11055990	DAIRYLAND 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 110565734	DAIRYLAND 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 110577794	DAIRYLAND 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1105845552	DAIRYLAND 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 110595970	DAIRYLAND 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1105CB	DAIRYLAND 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1109336164	DAIRYLAND 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 110936518	DAIRYLAND 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1109735784	DAIRYLAND 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1109CB	DAIRYLAND 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 11102060	DAIRYLAND 1110	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 11109830	DAIRYLAND 1110	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1110CB	DAIRYLAND 1110	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1111279006	DAIRYLAND 1111	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1111CB	DAIRYLAND 1111	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1111CUS8188	DAIRYLAND 1111	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1112163950	DAIRYLAND 1112	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 111254694	DAIRYLAND 1112	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1112977849	DAIRYLAND 1112	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1112CB	DAIRYLAND 1112	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1113345006	DAIRYLAND 1113	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1113406044	DAIRYLAND 1113	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 11135450	DAIRYLAND 1113	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 111356348	DAIRYLAND 1113	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 11135690	DAIRYLAND 1113	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1113595578	DAIRYLAND 1113	0		Madera	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
DAIRYLAND 1113921862	DAIRYLAND 1113	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYLAND 1113CB	DAIRYLAND 1113	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
DAIRYVILLE 1101147562	DAIRYVILLE 1101	0		Tehama	Non-HFTD	TRUE	TRUE	FALSE
DAIRYVILLE 11014679	DAIRYVILLE 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
DAIRYVILLE 1101CB	DAIRYVILLE 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 04014165	DALY CITY 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 0401CB	DALY CITY 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 110115279	DALY CITY 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 1101CB	DALY CITY 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 110212767	DALY CITY 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 110277934	DALY CITY 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 110289878	DALY CITY 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 1102CB	DALY CITY 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 1103CB	DALY CITY 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 110415369	DALY CITY 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 110442434	DALY CITY 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 11045169	DALY CITY 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 11045437	DALY CITY 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 110457240	DALY CITY 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 1104CB	DALY CITY 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 1105101	DALY CITY 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 110539396	DALY CITY 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 110576128	DALY CITY 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 1105CB	DALY CITY 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 11061801	DALY CITY 1106	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
DALY CITY 1106CB	DALY CITY 1106	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 1107CB	DALY CITY 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 110812513	DALY CITY 1108	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 1108CB	DALY CITY 1108	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 110985658	DALY CITY 1109	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
DALY CITY 1109CB	DALY CITY 1109	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 1110CB	DALY CITY 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 111113279	DALY CITY 1111	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 1111CB	DALY CITY 1111	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 111210099	DALY CITY 1112	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 111212075	DALY CITY 1112	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 11121565	DALY CITY 1112	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 1112744955	DALY CITY 1112	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 1112CB	DALY CITY 1112	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DALY CITY 1115CB	DALY CITY 1115	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110123072	DAVIS 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 11016032	DAVIS 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110168458	DAVIS 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 11019702	DAVIS 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1101CB	DAVIS 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1102294582	DAVIS 1102	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110266336	DAVIS 1102	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1102CB	DAVIS 1102	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110323092	DAVIS 1103	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1103CB	DAVIS 1103	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110477080	DAVIS 1104	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110489158	DAVIS 1104	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1104CB	DAVIS 1104	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1105130744	DAVIS 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110520567	DAVIS 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110521162	DAVIS 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1105943982	DAVIS 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1105CB	DAVIS 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110611072	DAVIS 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110620232	DAVIS 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110623502	DAVIS 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1106679364	DAVIS 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1106848866	DAVIS 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1106CB	DAVIS 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110712822	DAVIS 1107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110739406	DAVIS 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110743434	DAVIS 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1107600194	DAVIS 1107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 11079382	DAVIS 1107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1107CB	DAVIS 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1108CB	DAVIS 1108	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 110999850	DAVIS 1109	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1109CB	DAVIS 1109	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1110CB	DAVIS 1110	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 111157658	DAVIS 1111	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1111CB	DAVIS 1111	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 111239408	DAVIS 1112	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 11128722	DAVIS 1112	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 11128902	DAVIS 1112	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAVIS 1112CB	DAVIS 1112	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DAYTON ROAD 0401CB	DAYTON ROAD 0401	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
DEEPWATER 110522130	DEEPWATER 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DEEPWATER 1105CB	DEEPWATER 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DEEPWATER 1106CB	DEEPWATER 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DEEPWATER 110720212	DEEPWATER 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DEEPWATER 11076212	DEEPWATER 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DEEPWATER 1107CB	DEEPWATER 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DEEPWATER 1108CB	DEEPWATER 1108	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DEEPWATER 1109CB	DEEPWATER 1109	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DEER CREEK PH 0401CB	DEER CREEK PH 0401	1.12243683		Nevada	Tier 3	FALSE	TRUE	TRUE
DEL MAR 11032702	DEL MAR 1103	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MAR 11032716	DEL MAR 1103	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MAR 1103624	DEL MAR 1103	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MAR 1103CB	DEL MAR 1103	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MAR 1104CB	DEL MAR 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MAR 21051048	DEL MAR 2105	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MAR 21051270	DEL MAR 2105	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MAR 210551692	DEL MAR 2105	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MAR 210551694	DEL MAR 2105	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MAR 210584138	DEL MAR 2105	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MAR 2105CB	DEL MAR 2105	0		Placer	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
DEL MAR 21061686	DEL MAR 2106	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MAR 210938684	DEL MAR 2109	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MAR 210975802	DEL MAR 2109	0.349161693		Placer	Tier 2	FALSE	TRUE	TRUE
DEL MAR 2109CB	DEL MAR 2109	1.685967544		Placer	Tier 2	FALSE	TRUE	TRUE
DEL MAR 211064434	DEL MAR 2110	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MAR 2110CB	DEL MAR 2110	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 21012108	DEL MONTE 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 210138576	DEL MONTE 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 210138582	DEL MONTE 2101	0.495617748		Monterey	Tier 2	FALSE	TRUE	TRUE
DEL MONTE 210172040	DEL MONTE 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 210195818	DEL MONTE 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 2101CB	DEL MONTE 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 21022650	DEL MONTE 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 210235404	DEL MONTE 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 2102396158	DEL MONTE 2102	0.657554969		Monterey	Tier 2	FALSE	TRUE	FALSE
DEL MONTE 210276218	DEL MONTE 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 2102878376	DEL MONTE 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 21029060	DEL MONTE 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 21029680	DEL MONTE 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 2102CB	DEL MONTE 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 21032000	DEL MONTE 2103	8.866452592		Monterey	Tier 2	FALSE	TRUE	FALSE
DEL MONTE 21032144	DEL MONTE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 21032642	DEL MONTE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 210332886	DEL MONTE 2103	0.628152558		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 210342226	DEL MONTE 2103	0.333348945		Monterey	Tier 2	FALSE	TRUE	TRUE
DEL MONTE 2103468158	DEL MONTE 2103	0.604928027		Monterey	Tier 2	FALSE	TRUE	FALSE
DEL MONTE 2103617344	DEL MONTE 2103	2.259717347		Monterey	Tier 2	FALSE	TRUE	FALSE
DEL MONTE 210386496	DEL MONTE 2103	1.06707654		Monterey	Tier 2	FALSE	TRUE	TRUE
DEL MONTE 21039106	DEL MONTE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 21039452	DEL MONTE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 2103CB	DEL MONTE 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 2104181640	DEL MONTE 2104	0.016177102		Monterey	Tier 2	FALSE	TRUE	TRUE
DEL MONTE 21042032	DEL MONTE 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 21042624	DEL MONTE 2104	18.4069596		Monterey	Tier 2	FALSE	TRUE	TRUE
DEL MONTE 21042762	DEL MONTE 2104	2.016818889		Monterey	Tier 2	FALSE	TRUE	TRUE
DEL MONTE 21043088	DEL MONTE 2104	15.14155986		Monterey	Tier 2	FALSE	TRUE	FALSE
DEL MONTE 210448004	DEL MONTE 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 210478676	DEL MONTE 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 21049096	DEL MONTE 2104	3.136082728		Monterey	Tier 2	FALSE	TRUE	TRUE
DEL MONTE 21049500	DEL MONTE 2104	5.617284563		Monterey	Tier 2	FALSE	TRUE	TRUE
DEL MONTE 2104CB	DEL MONTE 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 2105109480	DEL MONTE 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 2105176544	DEL MONTE 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 21052644	DEL MONTE 2105	1.041064903		Monterey	Tier 2	FALSE	TRUE	FALSE
DEL MONTE 210533708	DEL MONTE 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 210547700	DEL MONTE 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 210594074	DEL MONTE 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 21059454	DEL MONTE 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 210596246	DEL MONTE 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DEL MONTE 2105CB	DEL MONTE 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DELEVAN 1101CB	DELEVAN 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
DELEVAN 1102CB	DELEVAN 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
DESCHUTES 11011380	DESCHUTES 1101	19.74326502		Shasta	Tier 2	FALSE	TRUE	TRUE
DESCHUTES 11011580	DESCHUTES 1101	45.39309205		Shasta	Tier 3	FALSE	TRUE	TRUE
DESCHUTES 11011652	DESCHUTES 1101	20.24785611		Shasta	Tier 2	FALSE	TRUE	FALSE
DESCHUTES 11011654	DESCHUTES 1101	17.20869071		Shasta	Tier 3	FALSE	TRUE	FALSE
DESCHUTES 11019722	DESCHUTES 1101	2.841237482		Shasta	Tier 2	FALSE	TRUE	TRUE
DESCHUTES 1101CB	DESCHUTES 1101	4.161108758		Shasta	Tier 2	FALSE	TRUE	TRUE
DESCHUTES 1104100170	DESCHUTES 1104	0.039632161		Shasta	Tier 2	FALSE	TRUE	TRUE
DESCHUTES 1104116082	DESCHUTES 1104	2.589237536		Shasta	Tier 2	FALSE	TRUE	FALSE
DESCHUTES 11041370	DESCHUTES 1104	11.18674622		Shasta	Tier 2	FALSE	TRUE	TRUE
DESCHUTES 11041582	DESCHUTES 1104	4.94412265		Shasta	Tier 2	FALSE	TRUE	TRUE
DESCHUTES 1104269170	DESCHUTES 1104	4.600769917		Shasta	Tier 2	FALSE	TRUE	FALSE
DESCHUTES 1104378894	DESCHUTES 1104	2.387387585		Shasta	Tier 2	FALSE	TRUE	FALSE
DESCHUTES 1104421598	DESCHUTES 1104	3.886127208		Shasta	Tier 2	FALSE	TRUE	FALSE
DESCHUTES 110449024	DESCHUTES 1104	16.36180305		Shasta	Tier 2	FALSE	TRUE	FALSE
DESCHUTES 1104589602	DESCHUTES 1104	0.35412919		Shasta	Tier 2	FALSE	TRUE	FALSE
DESCHUTES 1104622260	DESCHUTES 1104	5.58874454		Shasta	Tier 2	FALSE	TRUE	FALSE
DESCHUTES 1104715242	DESCHUTES 1104	1.370769043		Shasta	Tier 2	FALSE	TRUE	FALSE
DESCHUTES 11049718	DESCHUTES 1104	5.444473255		Shasta	Tier 2	FALSE	TRUE	TRUE
DESCHUTES 1104CB	DESCHUTES 1104	1.630879498		Shasta	Tier 2	FALSE	TRUE	TRUE
DEVILS DEN 1101824190	DEVILS DEN 1101	0.385058899		Kings	Non-HFTD	FALSE	FALSE	FALSE
DEVILS DEN 11019470	DEVILS DEN 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
DEVILS DEN 1101CB	DEVILS DEN 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
DEVILS DEN 1102460850	DEVILS DEN 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
DEVILS DEN 11029340	DEVILS DEN 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
DEVILS DEN 1102CB	DEVILS DEN 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
DIABLO CANYON 1101CB	DIABLO CANYON 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
DIAMOND SPRINGS 1103467046	DIAMOND SPRINGS 1103	15.38721957		El Dorado	Tier 3	FALSE	TRUE	TRUE
DIAMOND SPRINGS 11039432	DIAMOND SPRINGS 1103	16.84306499		El Dorado	Tier 3	FALSE	TRUE	TRUE
DIAMOND SPRINGS 1103CB	DIAMOND SPRINGS 1103	0.937064347		El Dorado	Tier 3	FALSE	TRUE	TRUE
DIAMOND SPRINGS 1104147386	DIAMOND SPRINGS 1104	4.598558376		El Dorado	Tier 3	FALSE	TRUE	TRUE
DIAMOND SPRINGS 1104705100	DIAMOND SPRINGS 1104	7.370893154		El Dorado	Tier 3	FALSE	TRUE	FALSE
DIAMOND SPRINGS 1104CB	DIAMOND SPRINGS 1104	0.484085216		El Dorado	Tier 2	FALSE	TRUE	TRUE
DIAMOND SPRINGS 1105146980	DIAMOND SPRINGS 1105	1.898317103		El Dorado	Tier 3	FALSE	TRUE	FALSE
DIAMOND SPRINGS 110518935	DIAMOND SPRINGS 1105	6.469535248		El Dorado	Tier 3	FALSE	TRUE	TRUE
DIAMOND SPRINGS 110519910	DIAMOND SPRINGS 1105	20.5890963		El Dorado	Tier 3	FALSE	TRUE	TRUE
DIAMOND SPRINGS 11052102	DIAMOND SPRINGS 1105	34.87733396		El Dorado	Tier 3	FALSE	TRUE	TRUE
DIAMOND SPRINGS 11057722	DIAMOND SPRINGS 1105	58.49093355		El Dorado	Tier 3	FALSE	TRUE	TRUE
DIAMOND SPRINGS 1105CB	DIAMOND SPRINGS 1105	1.141061995		El Dorado	Tier 3	FALSE	TRUE	TRUE
DIAMOND SPRINGS 1106176130	DIAMOND SPRINGS 1106	0.019567641		El Dorado	Tier 2	FALSE	TRUE	TRUE
DIAMOND SPRINGS 11062100	DIAMOND SPRINGS 1106	32.16486594		El Dorado	Tier 2	FALSE	TRUE	TRUE
DIAMOND SPRINGS 1106279670	DIAMOND SPRINGS 1106	3.745642892		El Dorado	Tier 2	FALSE	TRUE	FALSE
DIAMOND SPRINGS 1106337536	DIAMOND SPRINGS 1106	4.178216608		El Dorado	Tier 2	FALSE	TRUE	FALSE
DIAMOND SPRINGS 110650324	DIAMOND SPRINGS 1106	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
DIAMOND SPRINGS 110656026	DIAMOND SPRINGS 1106	14.67451915		El Dorado	Tier 2	FALSE	TRUE	FALSE
DIAMOND SPRINGS 1106583890	DIAMOND SPRINGS 1106	1.868003192		El Dorado	Tier 2	FALSE	TRUE	FALSE
DIAMOND SPRINGS 110676088	DIAMOND SPRINGS 1106	32.39413143		El Dorado	Tier 2	FALSE	TRUE	TRUE
DIAMOND SPRINGS 1106762780	DIAMOND SPRINGS 1106	0.156479681		El Dorado	Tier 2	FALSE	TRUE	TRUE
DIAMOND SPRINGS 1106930190	DIAMOND SPRINGS 1106	16.82990413		El Dorado	Tier 2	FALSE	TRUE	TRUE
DIAMOND SPRINGS 110699658	DIAMOND SPRINGS 1106	3.48955058		El Dorado	Tier 2	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
DIAMOND SPRINGS 1106CB	DIAMOND SPRINGS 1106	0.202714287		El Dorado	Tier 2	FALSE	TRUE	TRUE
DIAMOND SPRINGS 11071402	DIAMOND SPRINGS 1107	39.35992614		El Dorado	Tier 3	FALSE	TRUE	TRUE
DIAMOND SPRINGS 110719702	DIAMOND SPRINGS 1107	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
DIAMOND SPRINGS 1107203504	DIAMOND SPRINGS 1107	0.113824268		El Dorado	Tier 2	FALSE	TRUE	TRUE
DIAMOND SPRINGS 1107217974	DIAMOND SPRINGS 1107	4.098654451		El Dorado	Tier 2	FALSE	TRUE	FALSE
DIAMOND SPRINGS 1107301798	DIAMOND SPRINGS 1107	4.641724786		El Dorado	Tier 3	FALSE	TRUE	FALSE
DIAMOND SPRINGS 110777086	DIAMOND SPRINGS 1107	2.496471521		El Dorado	Tier 3	FALSE	TRUE	TRUE
DIAMOND SPRINGS 1107CB	DIAMOND SPRINGS 1107	1.314277123		El Dorado	Tier 2	FALSE	TRUE	TRUE
DINUBA 1102358968	DINUBA 1102	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 1102CB	DINUBA 1102	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 110448592	DINUBA 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 110466036	DINUBA 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 11047020	DINUBA 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 11047300	DINUBA 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 11047590	DINUBA 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 110476483	DINUBA 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 11047865F	DINUBA 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 1104CB	DINUBA 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 110544364	DINUBA 1105	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 1105510758	DINUBA 1105	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 1105630598	DINUBA 1105	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 11057030	DINUBA 1105	0		Tulare	Non-HFTD	TRUE	TRUE	FALSE
DINUBA 11057120	DINUBA 1105	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 1105752984	DINUBA 1105	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 11057800	DINUBA 1105	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 1105CB	DINUBA 1105	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 11067810	DINUBA 1106	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DINUBA 1106CB	DINUBA 1106	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
DIVIDE 1101CB	DIVIDE 1101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
DIVIDE 1101M78	DIVIDE 1101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
DIVIDE 11021385	DIVIDE 1102	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
DIVIDE 110245067	DIVIDE 1102	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
DIVIDE 110266960	DIVIDE 1102	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
DIVIDE 1102CB	DIVIDE 1102	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
DIVIDE 1102M130	DIVIDE 1102	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
DIVIDE 1102M144	DIVIDE 1102	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
DIVIDE 1102M46	DIVIDE 1102	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
DIVIDE 110323614	DIVIDE 1103	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
DIVIDE 110348160	DIVIDE 1103	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
DIVIDE 1103567884	DIVIDE 1103	2.378652799		Santa Barbara	Tier 2	FALSE	TRUE	FALSE
DIVIDE 110398166	DIVIDE 1103	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
DIVIDE 1103CB	DIVIDE 1103	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
DIXON 110212352	DIXON 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 110248308	DIXON 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 1102CB	DIXON 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 110315137	DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 1103310714	DIXON 1103	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DIXON 11035932	DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 11038202	DIXON 1103	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DIXON 11038782	DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 11039732	DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 1103985886	DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 1103CB	DIXON 1103	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
DIXON 110449598	DIXON 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 1104CB	DIXON 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 110512382	DIXON 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 11056232	DIXON 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 1105CB	DIXON 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 1106533554	DIXON 1106	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON 1106CB	DIXON 1106	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2101CB	DIXON LANDING 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2101XR012	DIXON LANDING 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2101XR340	DIXON LANDING 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2101XR580	DIXON LANDING 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2101XR590	DIXON LANDING 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2102393382	DIXON LANDING 2102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 21028439	DIXON LANDING 2102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2102CB	DIXON LANDING 2102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2103CB	DIXON LANDING 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2103XR016	DIXON LANDING 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2103XR142	DIXON LANDING 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2103XR400	DIXON LANDING 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2105CB	DIXON LANDING 2105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2109CB	DIXON LANDING 2109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2109MR119	DIXON LANDING 2109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2109MR211	DIXON LANDING 2109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2109MR613	DIXON LANDING 2109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DIXON LANDING 2111CB	DIXON LANDING 2111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DOBBINS 11011264	DOBBINS 1101	27.37597873		Yuba	Tier 3	FALSE	TRUE	TRUE
DOBBINS 11011808	DOBBINS 1101	15.54657952		Yuba	Tier 3	FALSE	TRUE	FALSE
DOBBINS 11015202	DOBBINS 1101	16.28672285		Yuba	Tier 2	TRUE	TRUE	TRUE
DOBBINS 110169722	DOBBINS 1101	6.524307771		Yuba	Tier 3	FALSE	TRUE	TRUE
DOBBINS 110183186	DOBBINS 1101	7.242809435		Yuba	Tier 3	TRUE	TRUE	TRUE
DOBBINS 110191464	DOBBINS 1101	6.931246653		Yuba	Tier 3	TRUE	TRUE	FALSE
DOBBINS 1101CB	DOBBINS 1101	0.691347884		Yuba	Tier 2	FALSE	TRUE	TRUE
DOLAN RD 1102CB	DOLAN RD 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DOLAN ROAD 1101156268	DOLAN ROAD 1101	0.014771514		Monterey	Tier 2	FALSE	TRUE	TRUE
DOLAN ROAD 1101173702	DOLAN ROAD 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DOLAN ROAD 110122158	DOLAN ROAD 1101	0.014081453		Monterey	Tier 2	FALSE	TRUE	TRUE
DOLAN ROAD 11013048	DOLAN ROAD 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DOLAN ROAD 110157184	DOLAN ROAD 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DOLAN ROAD 1101590402	DOLAN ROAD 1101	1.792784146		Monterey	Tier 2	FALSE	TRUE	TRUE
DOLAN ROAD 1101672110	DOLAN ROAD 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DOLAN ROAD 110169466	DOLAN ROAD 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DOLAN ROAD 1101857972	DOLAN ROAD 1101	0.839747507		Monterey	Tier 2	FALSE	TRUE	FALSE
DOLAN ROAD 1101882610	DOLAN ROAD 1101	0.047803752		Monterey	Tier 2	FALSE	TRUE	TRUE
DOLAN ROAD 1101CB	DOLAN ROAD 1101	0.065099192		Monterey	Tier 2	FALSE	TRUE	TRUE
DOLAN ROAD 1103CB	DOLAN ROAD 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DOLAN ROAD 1104CB	DOLAN ROAD 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
DOS PALOS 110137478	DOS PALOS 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
DOS PALOS 1101622694	DOS PALOS 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
DOS PALOS 110190170	DOS PALOS 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
DOS PALOS 11019910	DOS PALOS 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
DOS PALOS 1101CB	DOS PALOS 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
DOS PALOS 1102CB	DOS PALOS 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
DRUM 11011602	DRUM 1101	16.2002739		Placer	Tier 3	FALSE	TRUE	TRUE
DRUM 1101CB	DRUM 1101	2.164560757		Placer	Tier 3	FALSE	TRUE	TRUE
DUMBARTON 1102205046	DUMBARTON 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1102CB	DUMBARTON 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1102MR228	DUMBARTON 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1102MR466	DUMBARTON 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1103CB	DUMBARTON 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1103MR369	DUMBARTON 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1104CB	DUMBARTON 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1104MR300	DUMBARTON 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1104MR667	DUMBARTON 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 11066672	DUMBARTON 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1106CB	DUMBARTON 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1107CB	DUMBARTON 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1107MR242	DUMBARTON 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1107MR448	DUMBARTON 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1108CB	DUMBARTON 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1108MR488	DUMBARTON 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1108MR561	DUMBARTON 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1109CB	DUMBARTON 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1109MR241	DUMBARTON 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 11108918	DUMBARTON 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 1110CB	DUMBARTON 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 2111836304	DUMBARTON 2111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUMBARTON 2111CB	DUMBARTON 2111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
DUNBAR 1101137736	DUNBAR 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
DUNBAR 1101142052	DUNBAR 1101	0.05977738		Sonoma	Tier 2	FALSE	TRUE	TRUE
DUNBAR 1101440	DUNBAR 1101	1.947846986		Sonoma	Tier 3	FALSE	TRUE	TRUE
DUNBAR 110149556	DUNBAR 1101	8.761668442		Sonoma	Tier 3	FALSE	TRUE	TRUE
DUNBAR 1101534	DUNBAR 1101	15.63432279		Sonoma	Tier 3	TRUE	TRUE	TRUE
DUNBAR 1101725292	DUNBAR 1101	0.174027928		Sonoma	Tier 3	FALSE	TRUE	TRUE
DUNBAR 110181584	DUNBAR 1101	0.948640993		Sonoma	Tier 3	TRUE	TRUE	TRUE
DUNBAR 1101835658	DUNBAR 1101	0.021416916		Sonoma	Tier 3	FALSE	TRUE	TRUE
DUNBAR 110184678	DUNBAR 1101	0.141379666		Sonoma	Tier 2	FALSE	TRUE	TRUE
DUNBAR 1101872066	DUNBAR 1101	0.465112229		Sonoma	Tier 3	FALSE	TRUE	TRUE
DUNBAR 1101904852	DUNBAR 1101	1.008238875		Sonoma	Tier 2	TRUE	TRUE	TRUE
DUNBAR 1101CB	DUNBAR 1101	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
DUNBAR 1102246	DUNBAR 1102	11.60868679		Sonoma	Tier 3	TRUE	TRUE	TRUE
DUNBAR 1102261774	DUNBAR 1102	13.51067256		Sonoma	Tier 3	TRUE	TRUE	TRUE
DUNBAR 1102264	DUNBAR 1102	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
DUNBAR 1102386158	DUNBAR 1102	3.120203622		Sonoma	Tier 3	FALSE	TRUE	FALSE
DUNBAR 1102448	DUNBAR 1102	2.205151828		Sonoma	Tier 2	FALSE	TRUE	TRUE
DUNBAR 1102528	DUNBAR 1102	3.038277687		Sonoma	Tier 3	FALSE	TRUE	TRUE
DUNBAR 1102694641	DUNBAR 1102	3.998016067		Sonoma	Tier 3	FALSE	TRUE	TRUE
DUNBAR 1102861496	DUNBAR 1102	4.469458665		Sonoma	Tier 2	TRUE	TRUE	FALSE
DUNBAR 1102CB	DUNBAR 1102	7.560366117		Sonoma	Tier 2	TRUE	TRUE	TRUE
DUNBAR 1103160	DUNBAR 1103	0.191812122		Sonoma	Tier 2	FALSE	TRUE	TRUE
DUNBAR 1103234	DUNBAR 1103	6.03084018		Sonoma	Tier 3	TRUE	TRUE	TRUE
DUNBAR 1103302	DUNBAR 1103	2.737952554		Sonoma	Tier 3	TRUE	TRUE	TRUE
DUNBAR 1103416	DUNBAR 1103	1.290591337		Sonoma	Tier 3	TRUE	TRUE	TRUE
DUNBAR 110347964	DUNBAR 1103	6.23462691		Sonoma	Tier 3	TRUE	TRUE	TRUE
DUNBAR 11034882	DUNBAR 1103	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
DUNBAR 1103596218	DUNBAR 1103	0.236972954		Sonoma	Tier 2	TRUE	TRUE	TRUE
DUNBAR 1103681238	DUNBAR 1103	0.48790309		Sonoma	Tier 3	FALSE	TRUE	TRUE
DUNBAR 110379086	DUNBAR 1103	6.441860684		Sonoma	Tier 2	TRUE	TRUE	TRUE
DUNBAR 1103831696	DUNBAR 1103	9.106119263		Sonoma	Tier 3	TRUE	TRUE	FALSE
DUNBAR 1103839384	DUNBAR 1103	2.229037933		Sonoma	Tier 3	TRUE	TRUE	TRUE
DUNBAR 1103CB	DUNBAR 1103	0.014770615		Sonoma	Tier 2	FALSE	TRUE	TRUE
DUNLAP 110239190	DUNLAP 1102	1.710615334		Fresno	Tier 2	FALSE	TRUE	FALSE
DUNLAP 11027050	DUNLAP 1102	12.67204713		Tulare	Tier 2	TRUE	TRUE	TRUE
DUNLAP 11027060	DUNLAP 1102	18.03400626		Fresno	Tier 2	TRUE	TRUE	FALSE
DUNLAP 11027360	DUNLAP 1102	8.928537494		Fresno	Tier 2	FALSE	TRUE	TRUE
DUNLAP 11027849F	DUNLAP 1102	7.556707742		Fresno	Tier 2	FALSE	TRUE	TRUE
DUNLAP 1102CB	DUNLAP 1102	6.639489412		Fresno	Tier 2	FALSE	TRUE	TRUE
DUNLAP 11037040	DUNLAP 1103	25.3589858		Fresno	Tier 2	FALSE	TRUE	TRUE
DUNLAP 11037080	DUNLAP 1103	10.56291461		Fresno	Tier 2	FALSE	TRUE	TRUE
DUNLAP 11037170	DUNLAP 1103	5.027757393		Tulare	Tier 2	FALSE	TRUE	TRUE
DUNLAP 11037220	DUNLAP 1103	24.87609264		Fresno	Tier 2	TRUE	TRUE	TRUE
DUNLAP 1103CB	DUNLAP 1103	5.529898836		Fresno	Tier 2	FALSE	TRUE	TRUE
DUNNIGAN 1101125416	DUNNIGAN 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DUNNIGAN 110130002	DUNNIGAN 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DUNNIGAN 110130004	DUNNIGAN 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
DUNNIGAN 11013050	DUNNIGAN 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DUNNIGAN 110136956	DUNNIGAN 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
DUNNIGAN 110137552	DUNNIGAN 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DUNNIGAN 11014704	DUNNIGAN 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
DUNNIGAN 11014706	DUNNIGAN 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DUNNIGAN 1101589936	DUNNIGAN 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DUNNIGAN 110192472	DUNNIGAN 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DUNNIGAN 110199650	DUNNIGAN 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
DUNNIGAN 1101CB	DUNNIGAN 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 0401CB	EAST GRAND 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 0404CB	EAST GRAND 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1101250170	EAST GRAND 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 110175693	EAST GRAND 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1101CB	EAST GRAND 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1102190312	EAST GRAND 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1102305398	EAST GRAND 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1102CB	EAST GRAND 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1103382750	EAST GRAND 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1103CB	EAST GRAND 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 110412701	EAST GRAND 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1104CB	EAST GRAND 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1105727	EAST GRAND 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1105CB	EAST GRAND 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1106CB	EAST GRAND 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1107131	EAST GRAND 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
EAST GRAND 11071603	EAST GRAND 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 110739200	EAST GRAND 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1107540874	EAST GRAND 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 110776054	EAST GRAND 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 110784276	EAST GRAND 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1107CB	EAST GRAND 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1108693548	EAST GRAND 1108	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1108CB	EAST GRAND 1108	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1109CB	EAST GRAND 1109	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 111012515	EAST GRAND 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1110CB	EAST GRAND 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1111CB	EAST GRAND 1111	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1114CB	EAST GRAND 1114	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST GRAND 1115CB	EAST GRAND 1115	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
EAST MARYSVILLE 11051244	EAST MARYSVILLE 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST MARYSVILLE 11051384	EAST MARYSVILLE 1105	0		Yuba	Non-HFTD	TRUE	TRUE	FALSE
EAST MARYSVILLE 11051704	EAST MARYSVILLE 1105	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
EAST MARYSVILLE 1105CB	EAST MARYSVILLE 1105	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
EAST MARYSVILLE 1107CB	EAST MARYSVILLE 1107	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
EAST MARYSVILLE 11081706	EAST MARYSVILLE 1108	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
EAST MARYSVILLE 1108900690	EAST MARYSVILLE 1108	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
EAST MARYSVILLE 1108CB	EAST MARYSVILLE 1108	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 11011266	EAST NICOLAUS 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 11011358	EAST NICOLAUS 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 11011362	EAST NICOLAUS 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 11011372	EAST NICOLAUS 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 1101CB	EAST NICOLAUS 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 11021290	EAST NICOLAUS 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 11027254	EAST NICOLAUS 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 1102CB	EAST NICOLAUS 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 11031252	EAST NICOLAUS 1103	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 11031254	EAST NICOLAUS 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 11031258	EAST NICOLAUS 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 11032608	EAST NICOLAUS 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 110355920	EAST NICOLAUS 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 11037613	EAST NICOLAUS 1103	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
EAST NICOLAUS 1103CB	EAST NICOLAUS 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
EAST QUINCY 1101186938	EAST QUINCY 1101	1.329123225		Plumas	Tier 3	FALSE	TRUE	TRUE
EAST QUINCY 11012452	EAST QUINCY 1101	1.196217203		Plumas	Tier 3	FALSE	TRUE	TRUE
EAST QUINCY 1101424048	EAST QUINCY 1101	0.57047587		Plumas	Tier 3	FALSE	TRUE	TRUE
EAST QUINCY 1101951424	EAST QUINCY 1101	0.654665662		Plumas	Tier 2	FALSE	TRUE	TRUE
EAST QUINCY 1101CB	EAST QUINCY 1101	0		Plumas	Non-HFTD	FALSE	FALSE	FALSE
EAST STOCKTON 0401CB	EAST STOCKTON 0401	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EAST STOCKTON 0402549752	EAST STOCKTON 0402	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EAST STOCKTON 0402CB	EAST STOCKTON 0402	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EAST STOCKTON 1101530016	EAST STOCKTON 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EAST STOCKTON 110169982	EAST STOCKTON 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EAST STOCKTON 1101CB	EAST STOCKTON 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EAST STOCKTON 110214316	EAST STOCKTON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EAST STOCKTON 1102323786	EAST STOCKTON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EAST STOCKTON 110290582	EAST STOCKTON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EAST STOCKTON 1102CB	EAST STOCKTON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EAST STOCKTON 1102D7545	EAST STOCKTON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
ECHO SUMMIT 11012500	ECHO SUMMIT 1101	2.152488289		El Dorado	Tier 2	TRUE	TRUE	FALSE
ECHO SUMMIT 1101265728	ECHO SUMMIT 1101	0		El Dorado	Non-HFTD	TRUE	TRUE	FALSE
ECHO SUMMIT 1101344250	ECHO SUMMIT 1101	0.567426696		El Dorado	Tier 2	TRUE	TRUE	FALSE
ECHO SUMMIT 1101481660	ECHO SUMMIT 1101	1.025574019		El Dorado	Tier 2	TRUE	TRUE	TRUE
ECHO SUMMIT 1101507864	ECHO SUMMIT 1101	0		El Dorado	Non-HFTD	TRUE	TRUE	FALSE
ECHO SUMMIT 110155262	ECHO SUMMIT 1101	0.186571168		El Dorado	Tier 2	TRUE	TRUE	TRUE
ECHO SUMMIT 1101741586	ECHO SUMMIT 1101	0.68933109		El Dorado	Tier 2	FALSE	TRUE	FALSE
ECHO SUMMIT 1101889106	ECHO SUMMIT 1101	0		El Dorado	Non-HFTD	TRUE	TRUE	FALSE
ECHO SUMMIT 11018922	ECHO SUMMIT 1101	1.179476804		El Dorado	Tier 2	TRUE	TRUE	FALSE
ECHO SUMMIT 1101927328	ECHO SUMMIT 1101	0.042411928		El Dorado	Non-HFTD	TRUE	TRUE	TRUE
ECHO SUMMIT 1101927812	ECHO SUMMIT 1101	0		El Dorado	Non-HFTD	FALSE	FALSE	FALSE
ECHO SUMMIT 1101CB	ECHO SUMMIT 1101	0.096884651		El Dorado	Tier 2	FALSE	TRUE	FALSE
EDENVALE 1101CB	EDENVALE 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 1101XR184	EDENVALE 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 1102CB	EDENVALE 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 1102XR064	EDENVALE 1102	0.518986848		Santa Clara	Tier 2	FALSE	TRUE	TRUE
EDENVALE 1103CB	EDENVALE 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2105469810	EDENVALE 2105	2.238467417		Santa Clara	Tier 2	FALSE	TRUE	FALSE
EDENVALE 2105696340	EDENVALE 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2105739448	EDENVALE 2105	1.521857589		Santa Clara	Tier 2	FALSE	TRUE	FALSE
EDENVALE 210589634	EDENVALE 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2105CB	EDENVALE 2105	0.301329293		Santa Clara	Tier 2	FALSE	TRUE	TRUE
EDENVALE 2105XR336	EDENVALE 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2105XR350	EDENVALE 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2105XR392	EDENVALE 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2106CB	EDENVALE 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2106XR240	EDENVALE 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2106XR436	EDENVALE 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2106XR438	EDENVALE 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2107CB	EDENVALE 2107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2108CB	EDENVALE 2108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2108XR118	EDENVALE 2108	0		Santa Clara	Non-HFTD	TRUE	TRUE	FALSE
EDENVALE 2108XR570	EDENVALE 2108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2109CB	EDENVALE 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2109XR192	EDENVALE 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2110CB	EDENVALE 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2112CB	EDENVALE 2112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDENVALE 2113CB	EDENVALE 2113	0.015053552		Santa Clara	Tier 2	FALSE	TRUE	TRUE
EDENVALE 2113XR106	EDENVALE 2113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EDES 1101CB	EDES 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1101CR148	EDES 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1101CR230	EDES 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1101CR354	EDES 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1101CR388	EDES 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1103648284	EDES 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1103CB	EDES 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1103CR112	EDES 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1103CR136	EDES 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
EDES 1103CR358	EDES 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1105CB	EDES 1105	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
EDES 1110CB	EDES 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1111CB	EDES 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1111MR220	EDES 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1111MR647	EDES 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1112417626	EDES 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1112484536	EDES 1112	1.260550701		Alameda	Tier 2	FALSE	TRUE	TRUE
EDES 1112CB	EDES 1112	0.219338344		Alameda	Tier 2	FALSE	TRUE	TRUE
EDES 1112CR100	EDES 1112	2.076316594		Alameda	Tier 2	FALSE	TRUE	TRUE
EDES 1112CR282	EDES 1112	4.068212188		Alameda	Tier 2	FALSE	TRUE	TRUE
EDES 1112CR306	EDES 1112	1.008651357		Alameda	Tier 2	FALSE	TRUE	TRUE
EDES 1112CR308	EDES 1112	3.02543899		Alameda	Tier 2	TRUE	TRUE	TRUE
EDES 1112CR312	EDES 1112	3.607583758		Alameda	Tier 3	FALSE	TRUE	TRUE
EDES 1113CB	EDES 1113	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1113CR270	EDES 1113	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1114CB	EDES 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1114CR156	EDES 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1114CR318	EDES 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EDES 1114CR324	EDES 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EEL RIVER 11021902	EEL RIVER 1102	6.213761935		Humboldt	Tier 2	FALSE	TRUE	TRUE
EEL RIVER 1102409694	EEL RIVER 1102	3.217391537		Humboldt	Tier 2	FALSE	TRUE	FALSE
EEL RIVER 11024396	EEL RIVER 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EEL RIVER 11024600	EEL RIVER 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EEL RIVER 11024814	EEL RIVER 1102	23.62270043		Humboldt	Tier 2	FALSE	TRUE	FALSE
EEL RIVER 110249130	EEL RIVER 1102	1.569347883		Humboldt	Tier 2	FALSE	TRUE	TRUE
EEL RIVER 1102530	EEL RIVER 1102	0.038866978		Humboldt	Tier 2	FALSE	TRUE	TRUE
EEL RIVER 1102630456	EEL RIVER 1102	5.354118679		Humboldt	Tier 2	FALSE	TRUE	FALSE
EEL RIVER 1102680	EEL RIVER 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EEL RIVER 11028416	EEL RIVER 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EEL RIVER 1102CB	EEL RIVER 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EEL RIVER 1103216324	EEL RIVER 1103	2.414956847		Humboldt	Tier 2	FALSE	TRUE	FALSE
EEL RIVER 11033820	EEL RIVER 1103	0.781087558		Humboldt	Tier 2	FALSE	TRUE	TRUE
EEL RIVER 1103CB	EEL RIVER 1103	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 210111380	EIGHT MILE 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 210114324	EIGHT MILE 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 21017406	EIGHT MILE 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 2101816304	EIGHT MILE 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 2101CB	EIGHT MILE 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 210214582	EIGHT MILE 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 210238448	EIGHT MILE 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 21025272	EIGHT MILE 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 21025274	EIGHT MILE 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 210288822	EIGHT MILE 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 2102CB	EIGHT MILE 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 2103CB	EIGHT MILE 2103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 2104CB	EIGHT MILE 2104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 2105CB	EIGHT MILE 2105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 210614839	EIGHT MILE 2106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 210641522	EIGHT MILE 2106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EIGHT MILE 2106CB	EIGHT MILE 2106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 11024030	EL CAPITAN 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 1102605060	EL CAPITAN 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 110290272	EL CAPITAN 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 1102CB	EL CAPITAN 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 110310910	EL CAPITAN 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 110311670	EL CAPITAN 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 110311820	EL CAPITAN 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 1103182416	EL CAPITAN 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 110354922	EL CAPITAN 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 110384120	EL CAPITAN 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 11039700	EL CAPITAN 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 1103975920	EL CAPITAN 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 1103CB	EL CAPITAN 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 1104310622	EL CAPITAN 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 110433808	EL CAPITAN 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 110490330	EL CAPITAN 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 11049610	EL CAPITAN 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 1104CB	EL CAPITAN 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 110511480	EL CAPITAN 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 1105CB	EL CAPITAN 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 11062350	EL CAPITAN 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 110630980	EL CAPITAN 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 110690310	EL CAPITAN 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 110690350	EL CAPITAN 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 1106CB	EL CAPITAN 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 210990230	EL CAPITAN 2109	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 21099420	EL CAPITAN 2109	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 2109CB	EL CAPITAN 2109	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 211010960	EL CAPITAN 2110	0		Merced	Non-HFTD	TRUE	TRUE	FALSE
EL CAPITAN 21108500	EL CAPITAN 2110	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CAPITAN 2110CB	EL CAPITAN 2110	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1101736134	EL CERRITO G 1101	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
EL CERRITO G 1101CB	EL CERRITO G 1101	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
EL CERRITO G 1102704074	EL CERRITO G 1102	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
EL CERRITO G 1102BR230	EL CERRITO G 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1102CB	EL CERRITO G 1102	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
EL CERRITO G 1103BR124	EL CERRITO G 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1103CB	EL CERRITO G 1103	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
EL CERRITO G 1104CB	EL CERRITO G 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1105978484	EL CERRITO G 1105	3.663045566		Contra Costa	Tier 3	FALSE	TRUE	FALSE
EL CERRITO G 1105BR160	EL CERRITO G 1105	7.986434465		Alameda	Tier 3	FALSE	TRUE	TRUE
EL CERRITO G 1105BR164	EL CERRITO G 1105	0.056506979		Alameda	Tier 2	FALSE	TRUE	FALSE
EL CERRITO G 1105BR304	EL CERRITO G 1105	1.249013739		Alameda	Tier 2	FALSE	TRUE	TRUE
EL CERRITO G 1105BR316	EL CERRITO G 1105	4.102363693		Contra Costa	Tier 3	FALSE	TRUE	TRUE
EL CERRITO G 1105CB	EL CERRITO G 1105	7.429548062		Contra Costa	Tier 3	FALSE	TRUE	TRUE
EL CERRITO G 1106BR140	EL CERRITO G 1106	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
EL CERRITO G 1106CB	EL CERRITO G 1106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1107CB	EL CERRITO G 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1108BR254	EL CERRITO G 1108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1108BR346	EL CERRITO G 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
EL CERRITO G 1108CB	EL CERRITO G 1108	0.002698565		Alameda	Tier 2	FALSE	TRUE	TRUE
EL CERRITO G 1109BR122	EL CERRITO G 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1109CB	EL CERRITO G 1109	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
EL CERRITO G 1110173396	EL CERRITO G 1110	0.166431745		Contra Costa	Tier 2	FALSE	TRUE	FALSE
EL CERRITO G 1110BR126	EL CERRITO G 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1110BR236	EL CERRITO G 1110	0.486483016		Contra Costa	Tier 2	FALSE	TRUE	FALSE
EL CERRITO G 1110BR238	EL CERRITO G 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1110BR240	EL CERRITO G 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1110CB	EL CERRITO G 1110	0.037398559		Contra Costa	Tier 2	FALSE	TRUE	TRUE
EL CERRITO G 1111760530	EL CERRITO G 1111	0.198181981		Contra Costa	Tier 2	FALSE	TRUE	FALSE
EL CERRITO G 1111818638	EL CERRITO G 1111	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
EL CERRITO G 1111CB	EL CERRITO G 1111	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
EL CERRITO G 1112418480	EL CERRITO G 1112	0.735851057		Contra Costa	Tier 3	FALSE	TRUE	TRUE
EL CERRITO G 111257953	EL CERRITO G 1112	0.169587664		Contra Costa	Tier 3	FALSE	TRUE	TRUE
EL CERRITO G 1112649732	EL CERRITO G 1112	0.020011763		Contra Costa	Tier 2	TRUE	TRUE	TRUE
EL CERRITO G 1112664184	EL CERRITO G 1112	0.349510787		Contra Costa	Tier 3	FALSE	TRUE	TRUE
EL CERRITO G 1112779030	EL CERRITO G 1112	0.464969817		Contra Costa	Tier 3	FALSE	TRUE	FALSE
EL CERRITO G 1112807878	EL CERRITO G 1112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1112BR152	EL CERRITO G 1112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1112BR170	EL CERRITO G 1112	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
EL CERRITO G 1112BR196	EL CERRITO G 1112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1112BR198	EL CERRITO G 1112	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
EL CERRITO G 1112CB	EL CERRITO G 1112	0.25639726		Contra Costa	Tier 3	FALSE	TRUE	TRUE
EL CERRITO G 1113BR120	EL CERRITO G 1113	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1113BR280	EL CERRITO G 1113	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1113BR282	EL CERRITO G 1113	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1113BR320	EL CERRITO G 1113	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1113CB	EL CERRITO G 1113	0.096217477		Contra Costa	Tier 2	FALSE	TRUE	TRUE
EL CERRITO G 111451228	EL CERRITO G 1114	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1114BR184	EL CERRITO G 1114	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1114BR190	EL CERRITO G 1114	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
EL CERRITO G 1114CB	EL CERRITO G 1114	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
EL DORADO PH 210113362	EL DORADO PH 2101	0.734704815		El Dorado	Non-HFTD	TRUE	TRUE	FALSE
EL DORADO PH 210113532	EL DORADO PH 2101	5.41994364		El Dorado	Tier 2	TRUE	TRUE	TRUE
EL DORADO PH 210119612	EL DORADO PH 2101	8.680793411		El Dorado	Tier 3	FALSE	TRUE	TRUE
EL DORADO PH 210119752	EL DORADO PH 2101	38.37076307		El Dorado	Tier 3	TRUE	TRUE	TRUE
EL DORADO PH 210126000	EL DORADO PH 2101	3.665248817		El Dorado	Tier 3	TRUE	TRUE	FALSE
EL DORADO PH 210136764	EL DORADO PH 2101	2.304273207		El Dorado	Tier 2	TRUE	TRUE	TRUE
EL DORADO PH 210152456	EL DORADO PH 2101	10.28969019		El Dorado	Tier 2	TRUE	TRUE	TRUE
EL DORADO PH 210163464	EL DORADO PH 2101	13.76442414		El Dorado	Tier 3	TRUE	TRUE	TRUE
EL DORADO PH 21016852	EL DORADO PH 2101	25.05566594		El Dorado	Tier 3	FALSE	TRUE	TRUE
EL DORADO PH 2101757474	EL DORADO PH 2101	3.109624962		El Dorado	Tier 3	TRUE	TRUE	TRUE
EL DORADO PH 2101887684	EL DORADO PH 2101	0.719143542		El Dorado	Tier 2	TRUE	TRUE	TRUE
EL DORADO PH 2101CB	EL DORADO PH 2101	7.280240524		El Dorado	Tier 3	FALSE	TRUE	TRUE
EL DORADO PH 210219542	EL DORADO PH 2102	5.746588127		El Dorado	Tier 3	FALSE	TRUE	TRUE
EL DORADO PH 210219562	EL DORADO PH 2102	2.857416398		El Dorado	Tier 3	FALSE	TRUE	TRUE
EL DORADO PH 2102542272	EL DORADO PH 2102	7.762963144		El Dorado	Tier 3	FALSE	TRUE	TRUE
EL DORADO PH 21026645	EL DORADO PH 2102	4.03642103		El Dorado	Tier 3	FALSE	TRUE	TRUE
EL DORADO PH 2102771208	EL DORADO PH 2102	4.279398218		El Dorado	Tier 3	FALSE	TRUE	TRUE
EL DORADO PH 2102927014	EL DORADO PH 2102	3.74786611		El Dorado	Tier 3	FALSE	TRUE	TRUE
EL DORADO PH 2102CB	EL DORADO PH 2102	5.526470413		El Dorado	Tier 3	FALSE	TRUE	TRUE
EL NIDO 11014480	EL NIDO 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 11015890	EL NIDO 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 1101889532	EL NIDO 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 110196140	EL NIDO 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 1101CB	EL NIDO 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 11024110	EL NIDO 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 11024760	EL NIDO 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 11025710	EL NIDO 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 1102840410	EL NIDO 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 1102CB	EL NIDO 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 1103389784	EL NIDO 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 11034490	EL NIDO 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 11034940	EL NIDO 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 1103661820	EL NIDO 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 1103CB	EL NIDO 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 110441394	EL NIDO 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 11044470	EL NIDO 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 110456332	EL NIDO 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 1104671924	EL NIDO 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL NIDO 1104CB	EL NIDO 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1101CB	EL PATIO 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1102CB	EL PATIO 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1103CB	EL PATIO 1103	0		Santa Clara	Non-HFTD	TRUE	TRUE	FALSE
EL PATIO 1103XR022	EL PATIO 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 110447296	EL PATIO 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1104CB	EL PATIO 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1104XR096	EL PATIO 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1105CB	EL PATIO 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1107CB	EL PATIO 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1107XR528	EL PATIO 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1107XR532	EL PATIO 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1108CB	EL PATIO 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1109CB	EL PATIO 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1109XR054	EL PATIO 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1109XR568	EL PATIO 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1111CB	EL PATIO 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1112CB	EL PATIO 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1112XR222	EL PATIO 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1112XR588	EL PATIO 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1112XR604	EL PATIO 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1113CB	EL PATIO 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1113LC02	EL PATIO 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1114CB	EL PATIO 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1114XR158	EL PATIO 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1116123364	EL PATIO 1116	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1116CB	EL PATIO 1116	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1117CB	EL PATIO 1117	0		Santa Clara	Non-HFTD	TRUE	TRUE	FALSE
EL PATIO 111860108	EL PATIO 1118	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 111896416	EL PATIO 1118	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1118CB	EL PATIO 1118	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
EL PATIO 1119CB	EL PATIO 1119	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PATIO 1119XR124	EL PATIO 1119	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 1102144698	EL PECO 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 11025090	EL PECO 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 11025590	EL PECO 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 11026030	EL PECO 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 110290060	EL PECO 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 1102CB	EL PECO 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 110511700	EL PECO 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 11054010	EL PECO 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 11055870	EL PECO 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 11056240	EL PECO 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 110590066	EL PECO 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 1105CB	EL PECO 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 11062040	EL PECO 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 110690030	EL PECO 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
EL PECO 1106CB	EL PECO 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
ELECTRA 1101105880	ELECTRA 1101	2.645314115		Amador	Tier 2	TRUE	TRUE	TRUE
ELECTRA 11011238	ELECTRA 1101	0.872514951		Amador	Tier 2	FALSE	TRUE	TRUE
ELECTRA 1101175840	ELECTRA 1101	8.447796989		Amador	Tier 2	FALSE	TRUE	TRUE
ELECTRA 110136816	ELECTRA 1101	5.141403061		Amador	Tier 2	FALSE	TRUE	TRUE
ELECTRA 110161816	ELECTRA 1101	23.50970263		Amador	Tier 2	FALSE	TRUE	TRUE
ELECTRA 11017104	ELECTRA 1101	12.0671403		Amador	Tier 2	FALSE	TRUE	TRUE
ELECTRA 1101L1697	ELECTRA 1101	5.770525833		Amador	Tier 2	FALSE	TRUE	TRUE
ELECTRA 110213414	ELECTRA 1102	0		Amador	Non-HFTD	FALSE	FALSE	FALSE
ELECTRA 1102285758	ELECTRA 1102	0.115693834		Amador	Tier 2	FALSE	TRUE	TRUE
ELECTRA 11024756	ELECTRA 1102	9.153924901		Amador	Tier 2	FALSE	TRUE	TRUE
ELECTRA 11026014	ELECTRA 1102	5.094174671		Calaveras	Tier 2	FALSE	TRUE	FALSE
ELECTRA 1102CB	ELECTRA 1102	2.60407149		Amador	Tier 2	FALSE	TRUE	TRUE
ELK 11011260	ELK 1101	15.53202274		Mendocino	Tier 2	FALSE	TRUE	FALSE
ELK 11011272	ELK 1101	26.4483083		Mendocino	Tier 2	FALSE	TRUE	FALSE
ELK 11011298	ELK 1101	11.49543499		Mendocino	Tier 2	FALSE	TRUE	FALSE
ELK 11011300	ELK 1101	2.119304674		Mendocino	Tier 2	FALSE	TRUE	TRUE
ELK 1101311906	ELK 1101	0.355505067		Mendocino	Tier 2	FALSE	TRUE	TRUE
ELK 110137434	ELK 1101	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
ELK 11014628	ELK 1101	2.337430978		Mendocino	Tier 2	FALSE	TRUE	FALSE
ELK 1101900	ELK 1101	7.358182925		Mendocino	Tier 2	FALSE	TRUE	TRUE
ELK 110191336	ELK 1101	7.551323368		Mendocino	Tier 2	FALSE	TRUE	FALSE
ELK 1101CB	ELK 1101	0.0077088		Mendocino	Tier 2	FALSE	TRUE	TRUE
ELK CREEK 11012002	ELK CREEK 1101	15.22057289		Glenn	Tier 2	FALSE	TRUE	TRUE
ELK CREEK 11012004	ELK CREEK 1101	21.64747501		Glenn	Tier 2	FALSE	TRUE	TRUE
ELK CREEK 11012008	ELK CREEK 1101	3.855122975		Colusa	Tier 2	FALSE	TRUE	TRUE
ELK CREEK 11012032	ELK CREEK 1101	8.487206514		Colusa	Tier 2	TRUE	TRUE	TRUE
ELK CREEK 11012106	ELK CREEK 1101	5.304554096		Glenn	Tier 2	FALSE	TRUE	TRUE
ELK CREEK 11012228	ELK CREEK 1101	2.862820369		Colusa	Tier 2	FALSE	TRUE	TRUE
ELK CREEK 110137334	ELK CREEK 1101	9.380215281		Glenn	Tier 2	FALSE	TRUE	TRUE
ELK CREEK 1101915302	ELK CREEK 1101	10.33827103		Colusa	Tier 2	TRUE	TRUE	TRUE
ELK CREEK 110193504	ELK CREEK 1101	1.956451229		Glenn	Tier 2	FALSE	TRUE	TRUE
ELK CREEK 1101CB	ELK CREEK 1101	0.043023243		Glenn	Tier 2	FALSE	TRUE	TRUE
ELK HILLS 1104334524	ELK HILLS 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ELK HILLS 11043522	ELK HILLS 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ELK HILLS 11044306	ELK HILLS 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ELK HILLS 110489376	ELK HILLS 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ELK HILLS 1104CB	ELK HILLS 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ELK HILLS 1104CUS8676	ELK HILLS 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ELK HILLS 1106556750	ELK HILLS 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ELK HILLS 1106639540	ELK HILLS 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ELK HILLS 1106CB	ELK HILLS 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
EMBARCADERO (Z) 1112CB	EMBARCADERO (Z) 1112	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
EMBARCADERO (Z) 111390064	EMBARCADERO (Z) 1113	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
EMBARCADERO (Z) 1113CB	EMBARCADERO (Z) 1113	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
EMBARCADERO (Z) 1114CB	EMBARCADERO (Z) 1114	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
EMBARCADERO (Z) 1115CB	EMBARCADERO (Z) 1115	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
EMBARCADERO (Z) 1116CB	EMBARCADERO (Z) 1116	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
EMBARCADERO (Z) 1118CB	EMBARCADERO (Z) 1118	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
EMBARCADERO (Z) 1119CB	EMBARCADERO (Z) 1119	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
EMBARCADERO (Z) 1120273892	EMBARCADERO (Z) 1120	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
EMBARCADERO (Z) 1120CB	EMBARCADERO (Z) 1120	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
EMBARCADERO (Z) 1122CB	EMBARCADERO (Z) 1122	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
EMBARCADERO (Z) 1123CB	EMBARCADERO (Z) 1123	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
EMERALD LAKE 0401CB	EMERALD LAKE 0401	10.20783628		San Mateo	Tier 3	TRUE	TRUE	TRUE
EMERALD LAKE 04028858	EMERALD LAKE 0402	1.884459264		San Mateo	Tier 2	FALSE	TRUE	FALSE
EMERALD LAKE 04028872	EMERALD LAKE 0402	2.789705491		San Mateo	Tier 2	FALSE	TRUE	FALSE
EMERALD LAKE 0402CB	EMERALD LAKE 0402	1.896078772		San Mateo	Tier 2	FALSE	TRUE	FALSE
ERTA 0403CB	ERTA 0403	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
ERTA 04045308	ERTA 0404	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
ERTA 04046633	ERTA 0404	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
ERTA 0404CB	ERTA 0404	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
ESQUON 11012052	ESQUON 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ESQUON 11012054	ESQUON 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ESQUON 1101717130	ESQUON 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ESQUON 1101CB	ESQUON 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ESQUON 11022060	ESQUON 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ESQUON 11022490	ESQUON 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ESQUON 1102CB	ESQUON 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ESQUON 1103CB	ESQUON 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ESTUDILLO 0401812566	ESTUDILLO 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
ESTUDILLO 0401850884	ESTUDILLO 0401	0.786424868		Alameda	Tier 2	FALSE	TRUE	FALSE
ESTUDILLO 0401CB	ESTUDILLO 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
EUREKA A 1103CB	EUREKA A 1103	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EUREKA A 1106CB	EUREKA A 1106	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EUREKA A 11075980	EUREKA A 1107	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EUREKA A 1107CB	EUREKA A 1107	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EUREKA E 11017104	EUREKA E 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EUREKA E 1101CB	EUREKA E 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EUREKA E 110429676	EUREKA E 1104	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EUREKA E 110435934	EUREKA E 1104	0.031091712		Humboldt	Tier 2	FALSE	TRUE	TRUE
EUREKA E 110498682	EUREKA E 1104	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EUREKA E 1104CB	EUREKA E 1104	0		Humboldt	Non-HFTD	TRUE	TRUE	FALSE
EUREKA E 1105CB	EUREKA E 1105	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2101CB	EVERGREEN 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE

Workpaper 032
Pacific Gas and Electric Company
Electrical Undergrounding Program
Circuit Segment List
(Continued)

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
EVERGREEN 2101XR080	EVERGREEN 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2101XR112	EVERGREEN 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 210213943	EVERGREEN 2102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2102CB	EVERGREEN 2102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2103980314	EVERGREEN 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2103CB	EVERGREEN 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2103XR072	EVERGREEN 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2103XR074	EVERGREEN 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2103XR566	EVERGREEN 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2104CB	EVERGREEN 2104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2104XR150	EVERGREEN 2104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2104XR236	EVERGREEN 2104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2104XR380	EVERGREEN 2104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2105CB	EVERGREEN 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2105XR094	EVERGREEN 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
EVERGREEN 2105XR170	EVERGREEN 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
FAIRHAVEN 110353174	FAIRHAVEN 1103	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
FAIRHAVEN 1103CB	FAIRHAVEN 1103	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
FAIRHAVEN 1104CB	FAIRHAVEN 1104	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
FAIRMOUNT 0401395180	FAIRMOUNT 0401	1.329918177		Contra Costa	Tier 2	FALSE	TRUE	FALSE
FAIRMOUNT 0401764538	FAIRMOUNT 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FAIRMOUNT 0401CB	FAIRMOUNT 0401	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FAIRMOUNT 0402CB	FAIRMOUNT 0402	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
FAIRVIEW 2206768080	FAIRVIEW 2206	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FAIRVIEW 2206CB	FAIRVIEW 2206	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FAIRVIEW 2206M523R	FAIRVIEW 2206	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FAIRVIEW 2207752858	FAIRVIEW 2207	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FAIRVIEW 22078275	FAIRVIEW 2207	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FAIRVIEW 220799096	FAIRVIEW 2207	9.799955802		Contra Costa	Tier 2	FALSE	TRUE	TRUE
FAIRVIEW 2207CB	FAIRVIEW 2207	0.180822395		Contra Costa	Tier 2	FALSE	TRUE	TRUE
FAIRVIEW 2207M500R	FAIRVIEW 2207	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FAIRVIEW 2207M501R	FAIRVIEW 2207	2.190500097		Contra Costa	Tier 2	FALSE	TRUE	TRUE
FAIRVIEW 2207M526R	FAIRVIEW 2207	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FAIRVIEW 2207P142	FAIRVIEW 2207	0.857410348		Contra Costa	Tier 2	FALSE	TRUE	TRUE
FAIRVIEW 2207P148	FAIRVIEW 2207	0.562724037		Contra Costa	Tier 2	FALSE	TRUE	TRUE
FAIRVIEW 2207P150	FAIRVIEW 2207	2.200264461		Contra Costa	Tier 2	TRUE	TRUE	TRUE
FAIRVIEW 2207P302	FAIRVIEW 2207	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FAIRVIEW 2207P304	FAIRVIEW 2207	5.129885458		Contra Costa	Tier 2	FALSE	TRUE	TRUE
FAIRVIEW 220893616	FAIRVIEW 2208	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FAIRVIEW 2208CB	FAIRVIEW 2208	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FAIRWAY 110312087	FAIRWAY 1103	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
FAIRWAY 1103CB	FAIRWAY 1103	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
FAIRWAY 1104CB	FAIRWAY 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
FAIRWAY 1104M20	FAIRWAY 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
FAIRWAY 1104M38	FAIRWAY 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
FAIRWAY 1106CB	FAIRWAY 1106	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
FAIRWAY 110748506	FAIRWAY 1107	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
FAIRWAY 1107891026	FAIRWAY 1107	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
FAIRWAY 1107CB	FAIRWAY 1107	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
FAIRWAY 1107M12	FAIRWAY 1107	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
FAIRWAY 1107M124	FAIRWAY 1107	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
FAIRWAY 1108CB	FAIRWAY 1108	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
FAIRWAY 1108M02	FAIRWAY 1108	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
FAMOSO 11012686	FAMOSO 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FAMOSO 1101CB	FAMOSO 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FAMOSO 1102CB	FAMOSO 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FAMOSO 11033652	FAMOSO 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FAMOSO 1103CB	FAMOSO 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FAMOSO 1105CB	FAMOSO 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FAMOSO 110797800	FAMOSO 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FAMOSO 1107CB	FAMOSO 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FELLOWS 21031100	FELLOWS 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FELLOWS 210382182	FELLOWS 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FELLOWS 2103CB	FELLOWS 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FELLOWS 21041052	FELLOWS 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FELLOWS 21041073	FELLOWS 2104	0		Kern	Non-HFTD	TRUE	TRUE	FALSE
FELLOWS 21041074	FELLOWS 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FELLOWS 21041098	FELLOWS 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FELLOWS 2104274456	FELLOWS 2104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
FELLOWS 210442100	FELLOWS 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FELLOWS 2104CB	FELLOWS 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210245890	FIGARDEN 2102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2102495424	FIGARDEN 2102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210249606	FIGARDEN 2102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210262168	FIGARDEN 2102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210265224	FIGARDEN 2102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2102752669	FIGARDEN 2102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2102CB	FIGARDEN 2102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2102D2872	FIGARDEN 2102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2102R2730	FIGARDEN 2102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2102R833	FIGARDEN 2102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210347324	FIGARDEN 2103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210384860	FIGARDEN 2103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210392114	FIGARDEN 2103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2103CB	FIGARDEN 2103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210438288	FIGARDEN 2104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210479486	FIGARDEN 2104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2104CB	FIGARDEN 2104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210538320	FIGARDEN 2105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210584594	FIGARDEN 2105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2105CB	FIGARDEN 2105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2105R2050	FIGARDEN 2105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210765564	FIGARDEN 2107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210787746	FIGARDEN 2107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2107CB	FIGARDEN 2107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2107R1150	FIGARDEN 2107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210846252	FIGARDEN 2108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2108CB	FIGARDEN 2108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2108R1020	FIGARDEN 2108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210949236	FIGARDEN 2109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 210965596	FIGARDEN 2109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
FIGARDEN 2109CB	FIGARDEN 2109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 211037172	FIGARDEN 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 21104230	FIGARDEN 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 211093078	FIGARDEN 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2110CB	FIGARDEN 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2110R9530	FIGARDEN 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 211132482	FIGARDEN 2111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 211132528	FIGARDEN 2111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 211191186	FIGARDEN 2111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2111CB	FIGARDEN 2111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 211255614	FIGARDEN 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 21126200	FIGARDEN 2112	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 211263889	FIGARDEN 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 211275770	FIGARDEN 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2112CB	FIGARDEN 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2112R1012	FIGARDEN 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2112R1140	FIGARDEN 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2112R3150	FIGARDEN 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 211353111	FIGARDEN 2113	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 211358912	FIGARDEN 2113	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2113CB	FIGARDEN 2113	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2113N40	FIGARDEN 2113	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIGARDEN 2113R1967	FIGARDEN 2113	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 110111940	FIREBAUGH 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 11013290	FIREBAUGH 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 11013430	FIREBAUGH 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 11013540	FIREBAUGH 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 1101738194	FIREBAUGH 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 110196158	FIREBAUGH 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 1101CB	FIREBAUGH 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 110211941	FIREBAUGH 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 110212190	FIREBAUGH 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 110236934	FIREBAUGH 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 1102787210	FIREBAUGH 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 110297290	FIREBAUGH 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 110298862	FIREBAUGH 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 1102CB	FIREBAUGH 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 110336942	FIREBAUGH 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 11033830	FIREBAUGH 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 110383056	FIREBAUGH 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FIREBAUGH 1103CB	FIREBAUGH 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
FITCH MOUNTAIN 1111424	FITCH MOUNTAIN 1111	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FITCH MOUNTAIN 1111555644	FITCH MOUNTAIN 1111	0.034084319		Sonoma	Tier 2	TRUE	TRUE	TRUE
FITCH MOUNTAIN 1111592	FITCH MOUNTAIN 1111	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FITCH MOUNTAIN 1111610	FITCH MOUNTAIN 1111	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FITCH MOUNTAIN 1111752596	FITCH MOUNTAIN 1111	0.060321697		Sonoma	Tier 2	FALSE	TRUE	TRUE
FITCH MOUNTAIN 1111792628	FITCH MOUNTAIN 1111	0.195975934		Sonoma	Tier 2	FALSE	TRUE	TRUE
FITCH MOUNTAIN 1111821431	FITCH MOUNTAIN 1111	0.249938346		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FITCH MOUNTAIN 1111CB	FITCH MOUNTAIN 1111	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
FITCH MOUNTAIN 1112CB	FITCH MOUNTAIN 1112	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FITCH MOUNTAIN 1113154	FITCH MOUNTAIN 1113	1.692577388		Sonoma	Tier 2	FALSE	TRUE	TRUE
FITCH MOUNTAIN 111324550	FITCH MOUNTAIN 1113	8.92582103		Sonoma	Tier 3	FALSE	TRUE	TRUE
FITCH MOUNTAIN 111324918	FITCH MOUNTAIN 1113	24.21136693		Sonoma	Tier 3	TRUE	TRUE	TRUE
FITCH MOUNTAIN 1113352	FITCH MOUNTAIN 1113	10.10721325		Sonoma	Tier 2	TRUE	TRUE	TRUE
FITCH MOUNTAIN 1113356	FITCH MOUNTAIN 1113	9.42775052		Sonoma	Tier 3	TRUE	TRUE	TRUE
FITCH MOUNTAIN 1113406	FITCH MOUNTAIN 1113	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FITCH MOUNTAIN 1113443164	FITCH MOUNTAIN 1113	2.161453488		Sonoma	Tier 2	FALSE	TRUE	TRUE
FITCH MOUNTAIN 11134566	FITCH MOUNTAIN 1113	11.28931283		Sonoma	Tier 2	TRUE	TRUE	TRUE
FITCH MOUNTAIN 1113482752	FITCH MOUNTAIN 1113	1.711708158		Sonoma	Tier 2	FALSE	TRUE	FALSE
FITCH MOUNTAIN 111349826	FITCH MOUNTAIN 1113	0.237376541		Sonoma	Tier 2	FALSE	TRUE	TRUE
FITCH MOUNTAIN 1113677510	FITCH MOUNTAIN 1113	4.795412367		Sonoma	Tier 3	FALSE	TRUE	TRUE
FITCH MOUNTAIN 1113775992	FITCH MOUNTAIN 1113	1.991244151		Sonoma	Tier 2	FALSE	TRUE	TRUE
FITCH MOUNTAIN 1113824468	FITCH MOUNTAIN 1113	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FITCH MOUNTAIN 1113CB	FITCH MOUNTAIN 1113	0.125853197		Sonoma	Tier 2	FALSE	TRUE	TRUE
FLINT 110138570	FLINT 1101	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
FLINT 110140666	FLINT 1101	0.28281472		Placer	Tier 2	FALSE	TRUE	TRUE
FLINT 110150960	FLINT 1101	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
FLINT 1101750	FLINT 1101	4.574277997		Placer	Tier 2	FALSE	TRUE	TRUE
FLINT 1101958726	FLINT 1101	0.964819635		Placer	Tier 2	FALSE	TRUE	FALSE
FLINT 1101CB	FLINT 1101	0.507572296		Placer	Tier 2	FALSE	TRUE	TRUE
FLINT 1102CB	FLINT 1102	0.118468495		Placer	Tier 2	FALSE	TRUE	FALSE
FLORENCE 0401110836	FLORENCE 0401	0.598891249		Alameda	Tier 2	FALSE	TRUE	TRUE
FLORENCE 0401CB	FLORENCE 0401	0.054647425		Alameda	Tier 2	FALSE	TRUE	FALSE
FLORENCE 0401CR220	FLORENCE 0401	0.171254328		Alameda	Tier 2	FALSE	TRUE	TRUE
FMC 1105CB	FMC 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
FMC 1105XR050	FMC 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
FMC 1105XR052	FMC 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
FMC 1108CB	FMC 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
FMC 1109CB	FMC 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
FMC 111190062	FMC 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
FMC 1111CB	FMC 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
FOOTHILL 1101251688	FOOTHILL 1101	6.847554239		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
FOOTHILL 1101549904	FOOTHILL 1101	0.516364753		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
FOOTHILL 1101645910	FOOTHILL 1101	0.081639333		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
FOOTHILL 1101CB	FOOTHILL 1101	11.44422137		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
FOOTHILL 110299432	FOOTHILL 1102	1.031913162		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
FOOTHILL 1102CB	FOOTHILL 1102	7.448277639		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
FORESTHILL 11011802	FORESTHILL 1101	22.18383065		Placer	Tier 3	TRUE	TRUE	TRUE
FORESTHILL 110137238	FORESTHILL 1101	11.01268083		Placer	Tier 3	TRUE	TRUE	TRUE
FORESTHILL 110150486	FORESTHILL 1101	11.67679933		Placer	Tier 3	FALSE	TRUE	TRUE
FORESTHILL 110175340	FORESTHILL 1101	4.809656361		Placer	Tier 3	FALSE	TRUE	TRUE
FORESTHILL 11022106	FORESTHILL 1102	9.397512333		Placer	Tier 3	FALSE	TRUE	TRUE
FORESTHILL 1102359542	FORESTHILL 1102	18.47592752		Placer	Tier 3	FALSE	TRUE	TRUE
FORESTHILL 1102CB	FORESTHILL 1102	1.602477368		Placer	Tier 3	FALSE	TRUE	TRUE
FORT BRAGG A 11013100	FORT BRAGG A 1101	12.04555082		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 11013113	FORT BRAGG A 1101	9.590262607		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 11014622	FORT BRAGG A 1101	13.56126499		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 11014698	FORT BRAGG A 1101	8.145995572		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 110195294	FORT BRAGG A 1101	27.03566215		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 1101CB	FORT BRAGG A 1101	0.007298828		Mendocino	Tier 2	FALSE	TRUE	TRUE
FORT BRAGG A 11021226	FORT BRAGG A 1102	1.36168813		Mendocino	Tier 2	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
FORT BRAGG A 1102265870	FORT BRAGG A 1102	1.503398144		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 110231304	FORT BRAGG A 1102	20.05639631		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 110233064	FORT BRAGG A 1102	0.013828121		Mendocino	Tier 2	FALSE	TRUE	TRUE
FORT BRAGG A 110235592	FORT BRAGG A 1102	8.00599407		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 1102416218	FORT BRAGG A 1102	5.56581649		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 1102418	FORT BRAGG A 1102	13.91378103		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 1102667996	FORT BRAGG A 1102	5.782793599		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 1102816	FORT BRAGG A 1102	2.395172209		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 1102956	FORT BRAGG A 1102	5.561921597		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 1102CB	FORT BRAGG A 1102	1.87863286		Mendocino	Tier 2	FALSE	TRUE	TRUE
FORT BRAGG A 1103CB	FORT BRAGG A 1103	0.071125029		Mendocino	Tier 2	FALSE	TRUE	TRUE
FORT BRAGG A 11041316	FORT BRAGG A 1104	10.01050931		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 110436526	FORT BRAGG A 1104	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
FORT BRAGG A 11044690	FORT BRAGG A 1104	10.06455395		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 1104529076	FORT BRAGG A 1104	0.951211054		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 110465894	FORT BRAGG A 1104	0.141769545		Mendocino	Tier 2	FALSE	TRUE	TRUE
FORT BRAGG A 1104872358	FORT BRAGG A 1104	3.718687016		Mendocino	Tier 2	FALSE	TRUE	FALSE
FORT BRAGG A 1104CB	FORT BRAGG A 1104	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 1101131442	FORT ORD 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 11019516	FORT ORD 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 11019518	FORT ORD 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 1101CB	FORT ORD 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 210531972	FORT ORD 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 21059140	FORT ORD 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 2105CB	FORT ORD 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 210633694	FORT ORD 2106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 210637286	FORT ORD 2106	1.988754719		Monterey	Tier 2	FALSE	TRUE	FALSE
FORT ORD 21069136	FORT ORD 2106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 21069138	FORT ORD 2106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 210695186	FORT ORD 2106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 21069656	FORT ORD 2106	0.116295128		Monterey	Tier 2	FALSE	TRUE	FALSE
FORT ORD 21069658	FORT ORD 2106	0.094001335		Monterey	Tier 2	FALSE	TRUE	FALSE
FORT ORD 210736596	FORT ORD 2107	3.785301851		Monterey	Tier 2	FALSE	TRUE	TRUE
FORT ORD 210779670	FORT ORD 2107	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 2107CB	FORT ORD 2107	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ORD 2108CB	FORT ORD 2108	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
FORT ROSS 1121124	FORT ROSS 1121	18.5169586		Sonoma	Tier 2	FALSE	TRUE	TRUE
FORT ROSS 1121134	FORT ROSS 1121	8.022448934		Sonoma	Tier 2	FALSE	TRUE	TRUE
FORT ROSS 1121204	FORT ROSS 1121	19.62821733		Sonoma	Tier 3	FALSE	TRUE	TRUE
FORT ROSS 112137326	FORT ROSS 1121	0.480952099		Sonoma	Tier 2	FALSE	TRUE	FALSE
FORT ROSS 11214614	FORT ROSS 1121	12.56930355		Sonoma	Tier 2	FALSE	TRUE	TRUE
FORT ROSS 1121560	FORT ROSS 1121	4.298044273		Sonoma	Tier 2	FALSE	TRUE	FALSE
FORT ROSS 1121612266	FORT ROSS 1121	4.63669279		Sonoma	Tier 2	FALSE	TRUE	FALSE
FORT ROSS 112170288	FORT ROSS 1121	23.9731926		Sonoma	Tier 3	FALSE	TRUE	TRUE
FORT ROSS 1121CB	FORT ROSS 1121	0.016114238		Sonoma	Tier 2	FALSE	TRUE	TRUE
FORT SEWARD 11211690	FORT SEWARD 1121	16.47691348		Humboldt	Tier 2	FALSE	TRUE	FALSE
FORT SEWARD 1121CB	FORT SEWARD 1121	31.82927807		Trinity	Tier 2	TRUE	TRUE	TRUE
FORT SEWARD 1122CB	FORT SEWARD 1122	21.83544173		Humboldt	Tier 2	FALSE	TRUE	FALSE
FRANKLIN 1101CB	FRANKLIN 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FRANKLIN 1101P132	FRANKLIN 1101	0.003245827		Contra Costa	Tier 2	FALSE	TRUE	TRUE
FRANKLIN 1101P134	FRANKLIN 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FRANKLIN 1101P138	FRANKLIN 1101	1.357371291		Contra Costa	Tier 2	FALSE	TRUE	TRUE
FRANKLIN 1101P172	FRANKLIN 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FRANKLIN 1101P174	FRANKLIN 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FRANKLIN 1102CB	FRANKLIN 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FRANKLIN 1102P120	FRANKLIN 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FRANKLIN 1102P168	FRANKLIN 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FRANKLIN 1102P170	FRANKLIN 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FRANKLIN 1103CB	FRANKLIN 1103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FRANKLIN 1103P144	FRANKLIN 1103	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
FRANKLIN 1103P202	FRANKLIN 1103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FRANKLIN 1104615788	FRANKLIN 1104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
FRANKLIN 1104CB	FRANKLIN 1104	0.221086261		Contra Costa	Tier 2	TRUE	TRUE	TRUE
FRANKLIN 1104P136	FRANKLIN 1104	3.598316734		Contra Costa	Tier 2	TRUE	TRUE	TRUE
FRANKLIN 1104P146	FRANKLIN 1104	3.595525002		Contra Costa	Tier 2	FALSE	TRUE	TRUE
FREMONT 1103713704	FREMONT 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1103CB	FREMONT 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1103MR127	FREMONT 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1103MR733	FREMONT 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1041516	FREMONT 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1104645342	FREMONT 1104	1.084275171		Alameda	Tier 2	FALSE	TRUE	FALSE
FREMONT 1104CB	FREMONT 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1104MR339	FREMONT 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1104MR584	FREMONT 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1104MR707	FREMONT 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1107CB	FREMONT 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1107MR110	FREMONT 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1108CB	FREMONT 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 11099929	FREMONT 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1109CB	FREMONT 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1109MR699	FREMONT 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1109MR735	FREMONT 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1110CB	FREMONT 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1110MR130	FREMONT 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1110MR131	FREMONT 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FREMONT 1112CB	FREMONT 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
FRENCH CAMP 1101841572	FRENCH CAMP 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
FRENCH CAMP 1101CB	FRENCH CAMP 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
FRENCH CAMP 110211846	FRENCH CAMP 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
FRENCH CAMP 11021404	FRENCH CAMP 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
FRENCH CAMP 11022132	FRENCH CAMP 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
FRENCH CAMP 11028038	FRENCH CAMP 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
FRENCH CAMP 1102CB	FRENCH CAMP 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
FRENCH CAMP 1103CB	FRENCH CAMP 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
FRENCH CAMP 1104CB	FRENCH CAMP 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
FRENCH GULCH 11011464	FRENCH GULCH 1101	0.864223875		Shasta	Tier 2	FALSE	TRUE	TRUE
FRENCH GULCH 11011892	FRENCH GULCH 1101	3.019866995		Shasta	Tier 2	TRUE	TRUE	TRUE
FRENCH GULCH 11012905	FRENCH GULCH 1101	9.52061493		Shasta	Tier 2	TRUE	TRUE	TRUE
FRENCH GULCH 1101CB	FRENCH GULCH 1101	2.36289565		Shasta	Tier 2	TRUE	TRUE	TRUE
FRENCH GULCH 11021462	FRENCH GULCH 1102	9.787489466		Shasta	Tier 2	TRUE	TRUE	TRUE
FRENCH GULCH 11022902	FRENCH GULCH 1102	7.022955103		Shasta	Tier 2	TRUE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
FRENCH GULCH 1102CB	FRENCH GULCH 1102	1.822590569		Shasta	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 170113412	FROGTOWN 1701	38.72647513		Calaveras	Tier 3	FALSE	TRUE	TRUE
FROGTOWN 17011623	FROGTOWN 1701	15.24895804		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 17016807	FROGTOWN 1701	4.808892785		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 1701CB	FROGTOWN 1701	9.866769319		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 1701L3361	FROGTOWN 1701	1.852181656		Calaveras	Tier 2	FALSE	TRUE	FALSE
FROGTOWN 170211212	FROGTOWN 1702	22.18181904		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 170212282	FROGTOWN 1702	6.457557428		Calaveras	Tier 2	FALSE	TRUE	FALSE
FROGTOWN 17021573	FROGTOWN 1702	17.953349		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 1702204480	FROGTOWN 1702	0.344883633		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 1702224708	FROGTOWN 1702	0.64089257		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 1702307998	FROGTOWN 1702	0.43654595		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 170232556	FROGTOWN 1702	0.011895397		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 170236870	FROGTOWN 1702	0.661360181		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 1702592404	FROGTOWN 1702	0.19545758		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 17027108	FROGTOWN 1702	8.927508133		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 17027134	FROGTOWN 1702	19.11923683		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 1702737236	FROGTOWN 1702	26.57296815		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 1702739858	FROGTOWN 1702	4.75767441		Calaveras	Tier 2	FALSE	TRUE	FALSE
FROGTOWN 170274648	FROGTOWN 1702	0.740578811		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 170275252	FROGTOWN 1702	58.28542709		Calaveras	Tier 2	TRUE	TRUE	TRUE
FROGTOWN 1702812366	FROGTOWN 1702	2.55898223		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 1702815616	FROGTOWN 1702	0.992046662		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 1702832694	FROGTOWN 1702	0.29687332		Calaveras	Tier 2	FALSE	TRUE	FALSE
FROGTOWN 17028482	FROGTOWN 1702	14.75333252		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 1702CB	FROGTOWN 1702	2.174214083		Calaveras	Tier 2	FALSE	TRUE	TRUE
FROGTOWN 1702L5407	FROGTOWN 1702	18.03530648		Calaveras	Tier 2	FALSE	TRUE	FALSE
FRUITLAND 1141200856	FRUITLAND 1141	2.531858278		Humboldt	Tier 2	FALSE	TRUE	FALSE
FRUITLAND 114137410	FRUITLAND 1141	1.85173942		Humboldt	Tier 2	FALSE	TRUE	TRUE
FRUITLAND 11413902	FRUITLAND 1141	4.766690613		Humboldt	Tier 2	FALSE	TRUE	FALSE
FRUITLAND 1141866852	FRUITLAND 1141	2.920525257		Humboldt	Tier 2	FALSE	TRUE	TRUE
FRUITLAND 11418860	FRUITLAND 1141	1.815843196		Humboldt	Tier 2	FALSE	TRUE	FALSE
FRUITLAND 114195324	FRUITLAND 1141	6.483970744		Humboldt	Tier 2	FALSE	TRUE	FALSE
FRUITLAND 1141CB	FRUITLAND 1141	3.163546475		Humboldt	Tier 2	FALSE	TRUE	TRUE
FRUITLAND 11422006	FRUITLAND 1142	7.393357128		Humboldt	Tier 2	FALSE	TRUE	TRUE
FRUITLAND 11426054	FRUITLAND 1142	6.839589647		Humboldt	Tier 2	FALSE	TRUE	TRUE
FRUITLAND 11426064	FRUITLAND 1142	8.265948422		Humboldt	Tier 2	FALSE	TRUE	TRUE
FRUITLAND 1142615540	FRUITLAND 1142	11.54430358		Humboldt	Tier 2	FALSE	TRUE	TRUE
FRUITLAND 114263170	FRUITLAND 1142	11.92532866		Humboldt	Tier 2	FALSE	TRUE	FALSE
FRUITLAND 1142899734	FRUITLAND 1142	3.420621637		Humboldt	Tier 2	FALSE	TRUE	TRUE
FRUITLAND 114293234	FRUITLAND 1142	11.42193159		Humboldt	Tier 2	FALSE	TRUE	TRUE
FRUITLAND 1142CB	FRUITLAND 1142	3.581869094		Humboldt	Tier 2	FALSE	TRUE	TRUE
FRUITVALE 1101CB	FRUITVALE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FRUITVALE 1103319544	FRUITVALE 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FRUITVALE 1103815842	FRUITVALE 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FRUITVALE 1103CB	FRUITVALE 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FRUITVALE 11042464	FRUITVALE 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FRUITVALE 11044645	FRUITVALE 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FRUITVALE 1104CB	FRUITVALE 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FRUITVALE 1105CB	FRUITVALE 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FRUITVALE 1106CB	FRUITVALE 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FRUITVALE 1108CB	FRUITVALE 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
FULTON 11011734	FULTON 1101	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
FULTON 1101CB	FULTON 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 1102258281	FULTON 1102	0.385384851		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 1102287172	FULTON 1102	16.40214163		Sonoma	Tier 3	TRUE	TRUE	TRUE
FULTON 11024334	FULTON 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 11024522	FULTON 1102	8.208536435		Sonoma	Tier 3	TRUE	TRUE	TRUE
FULTON 11024994	FULTON 1102	1.181427707		Sonoma	Tier 2	FALSE	TRUE	TRUE
FULTON 11025102	FULTON 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 110257686	FULTON 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 110258990	FULTON 1102	0.025141965		Sonoma	Tier 2	TRUE	TRUE	TRUE
FULTON 1102885254	FULTON 1102	2.076670734		Sonoma	Tier 2	TRUE	TRUE	FALSE
FULTON 1102904058	FULTON 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 1102CB	FULTON 1102	0.049113137		Sonoma	Tier 2	TRUE	TRUE	TRUE
FULTON 1103CB	FULTON 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 1104466	FULTON 1104	0.406172088		Sonoma	Tier 2	FALSE	TRUE	TRUE
FULTON 11045016	FULTON 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 1104CB	FULTON 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 1105142	FULTON 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 1105172	FULTON 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 11054106	FULTON 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 110555802	FULTON 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 1105864	FULTON 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 1105CB	FULTON 1105	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
FULTON 11065056	FULTON 1106	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 1106CB	FULTON 1106	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 1107126742	FULTON 1107	0.34243681		Sonoma	Tier 3	TRUE	TRUE	TRUE
FULTON 1107145720	FULTON 1107	9.487103867		Sonoma	Tier 3	TRUE	TRUE	TRUE
FULTON 1107214	FULTON 1107	11.61272236		Sonoma	Tier 3	TRUE	TRUE	TRUE
FULTON 110746958	FULTON 1107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 11075058	FULTON 1107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
FULTON 1107604	FULTON 1107	4.238449813		Sonoma	Tier 3	FALSE	TRUE	TRUE
FULTON 110777670	FULTON 1107	6.503780357		Sonoma	Tier 3	TRUE	TRUE	TRUE
FULTON 1107914380	FULTON 1107	3.012966889		Sonoma	Tier 3	TRUE	TRUE	FALSE
FULTON 1107CB	FULTON 1107	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
GABILAN 1101270626	GABILAN 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GABILAN 11013034	GABILAN 1101	0.034341404		Monterey	Tier 2	FALSE	TRUE	TRUE
GABILAN 11013090	GABILAN 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GABILAN 11013722	GABILAN 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GABILAN 1101460414	GABILAN 1101	3.64074245		Monterey	Tier 2	FALSE	TRUE	FALSE
GABILAN 1101566352	GABILAN 1101	0.241201898		Monterey	Tier 2	FALSE	TRUE	FALSE
GABILAN 110191118	GABILAN 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GABILAN 1101989608	GABILAN 1101	0.63683167		Monterey	Tier 2	FALSE	TRUE	FALSE
GABILAN 1101CB	GABILAN 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GABILAN 1102CB	GABILAN 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GALLO 1101CB	GALLO 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GALLO 1102CB	GALLO 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GANSNER 11012006	GANSNER 1101	17.16018486		Plumas	Tier 3	FALSE	TRUE	FALSE
GANSNER 11012424	GANSNER 1101	14.30658605		Plumas	Tier 2	TRUE	TRUE	TRUE
GANSNER 1101336664	GANSNER 1101	0.545511169		Plumas	Tier 2	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
GANSNER 1101372132	GANSNER 1101	0.567737566		Plumas	Tier 3	FALSE	TRUE	TRUE
GANSNER 110137550	GANSNER 1101	0		Plumas	Non-HFTD	FALSE	FALSE	FALSE
GANSNER 1101489276	GANSNER 1101	0.427464394		Plumas	Tier 3	FALSE	TRUE	TRUE
GANSNER 110152664	GANSNER 1101	0.374253531		Plumas	Tier 3	FALSE	TRUE	TRUE
GANSNER 1101590690	GANSNER 1101	0.036725462		Plumas	Tier 3	FALSE	TRUE	TRUE
GANSNER 110199388	GANSNER 1101	0		Plumas	Non-HFTD	FALSE	FALSE	FALSE
GANSNER 1101CB	GANSNER 1101	0		Plumas	Non-HFTD	FALSE	FALSE	FALSE
GANSO 11033217	GANSO 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GANSO 1103330684	GANSO 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GANSO 11034885	GANSO 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GANSO 1103635704	GANSO 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GANSO 1103CB	GANSO 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GANSO 11041120	GANSO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GANSO 1104312168	GANSO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GANSO 1104339578	GANSO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GANSO 11043655	GANSO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GANSO 110454276	GANSO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GANSO 1104579706	GANSO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GANSO 1104602388	GANSO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GANSO 1104685998	GANSO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GANSO 1104CB	GANSO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GARBERVILLE 11011514	GARBERVILLE 1101	9.684658608		Humboldt	Tier 2	TRUE	TRUE	TRUE
GARBERVILLE 11011604	GARBERVILLE 1101	18.77782939		Humboldt	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 11011750	GARBERVILLE 1101	8.229426051		Humboldt	Tier 2	FALSE	TRUE	FALSE
GARBERVILLE 11011770	GARBERVILLE 1101	8.585141109		Mendocino	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 11012026	GARBERVILLE 1101	6.253297877		Mendocino	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 1101323694	GARBERVILLE 1101	6.349539671		Humboldt	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 110135706	GARBERVILLE 1101	9.866530482		Mendocino	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 110139524	GARBERVILLE 1101	15.14957468		Humboldt	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 1101438596	GARBERVILLE 1101	10.83663591		Mendocino	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 1101574630	GARBERVILLE 1101	4.946899215		Mendocino	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 11016014	GARBERVILLE 1101	51.59670991		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
GARBERVILLE 110197300	GARBERVILLE 1101	3.246847758		Mendocino	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 1101CB	GARBERVILLE 1101	6.393797923		Humboldt	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 11021510	GARBERVILLE 1102	13.02067864		Humboldt	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 1102176634	GARBERVILLE 1102	4.264804534		Humboldt	Tier 2	FALSE	TRUE	FALSE
GARBERVILLE 11022010	GARBERVILLE 1102	6.983057424		Humboldt	Tier 2	FALSE	TRUE	FALSE
GARBERVILLE 11022124	GARBERVILLE 1102	3.346591984		Humboldt	Tier 2	FALSE	TRUE	FALSE
GARBERVILLE 11022500	GARBERVILLE 1102	15.83807338		Humboldt	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 11022540	GARBERVILLE 1102	15.12518759		Humboldt	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 1102343364	GARBERVILLE 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
GARBERVILLE 110237054	GARBERVILLE 1102	8.294870738		Humboldt	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 11024744	GARBERVILLE 1102	11.74964568		Humboldt	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 110256048	GARBERVILLE 1102	4.940411844		Humboldt	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 11026084	GARBERVILLE 1102	7.515715516		Humboldt	Tier 2	FALSE	TRUE	FALSE
GARBERVILLE 1102802246	GARBERVILLE 1102	7.680819757		Humboldt	Tier 2	FALSE	TRUE	FALSE
GARBERVILLE 11028652	GARBERVILLE 1102	13.32088452		Humboldt	Tier 2	FALSE	TRUE	FALSE
GARBERVILLE 1102CB	GARBERVILLE 1102	10.19735076		Humboldt	Tier 2	FALSE	TRUE	TRUE
GARBERVILLE 1103CB	GARBERVILLE 1103	0.476480294		Humboldt	Tier 2	FALSE	TRUE	TRUE
GARCIA 0401666	GARCIA 0401	2.426856048		Mendocino	Tier 2	FALSE	TRUE	FALSE
GARCIA 0401CB	GARCIA 0401	0.03221349		Mendocino	Tier 2	FALSE	TRUE	TRUE
GARDNER 0401CB	GARDNER 0401	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GATES 1101934088	GATES 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1101CB	GATES 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1102754356	GATES 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GATES 11028040	GATES 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GATES 1102CB	GATES 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 110437824	GATES 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 11049110	GATES 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1104CB	GATES 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1105107640	GATES 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1105661396	GATES 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1105CB	GATES 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1106755338	GATES 1106	1.107677969		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1106879496	GATES 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 11069090	GATES 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 110692202	GATES 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 110699914	GATES 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1106CB	GATES 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1107CB	GATES 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1108CB	GATES 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1109CB	GATES 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1110264200	GATES 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 111084206	GATES 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1110950861	GATES 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GATES 1110CB	GATES 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GERBER 11011444	GERBER 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GERBER 110135536	GERBER 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GERBER 110137366	GERBER 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GERBER 1101CB	GERBER 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GERBER 11021560	GERBER 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GERBER 1102190339	GERBER 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GERBER 110237312	GERBER 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GERBER 11023771	GERBER 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GERBER 110241572	GERBER 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GERBER 110246628	GERBER 1102	0		Tehama	Non-HFTD	TRUE	TRUE	FALSE
GERBER 110253108	GERBER 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GERBER 1102585548	GERBER 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GERBER 1102CB	GERBER 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GEYSERVILLE 1101122	GEYSERVILLE 1101	0.573727756		Sonoma	Tier 2	FALSE	TRUE	TRUE
GEYSERVILLE 1101166	GEYSERVILLE 1101	10.86239987		Sonoma	Tier 2	FALSE	TRUE	TRUE
GEYSERVILLE 1101354	GEYSERVILLE 1101	1.305917554		Sonoma	Tier 2	FALSE	TRUE	TRUE
GEYSERVILLE 110135492	GEYSERVILLE 1101	8.534748255		Sonoma	Tier 2	TRUE	TRUE	TRUE
GEYSERVILLE 110137454	GEYSERVILLE 1101	6.180967086		Sonoma	Tier 2	FALSE	TRUE	TRUE
GEYSERVILLE 11014570	GEYSERVILLE 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
GEYSERVILLE 1101480	GEYSERVILLE 1101	0.803982575		Sonoma	Tier 2	FALSE	TRUE	TRUE
GEYSERVILLE 1101482	GEYSERVILLE 1101	0.204573037		Sonoma	Tier 2	FALSE	TRUE	TRUE
GEYSERVILLE 1101711966	GEYSERVILLE 1101	3.226591569		Sonoma	Tier 2	FALSE	TRUE	TRUE
GEYSERVILLE 110179788	GEYSERVILLE 1101	38.8109213		Sonoma	Tier 2	TRUE	TRUE	TRUE
GEYSERVILLE 1101975350	GEYSERVILLE 1101	0.015167771		Sonoma	Tier 2	FALSE	TRUE	TRUE
GEYSERVILLE 1101CB	GEYSERVILLE 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
GEYSERVILLE 1102220154	GEYSERVILLE 1102	0.21961402		Sonoma	Tier 2	FALSE	TRUE	TRUE
GEYSERVILLE 1102235124	GEYSERVILLE 1102	0.286713531		Sonoma	Tier 2	TRUE	TRUE	TRUE
GEYSERVILLE 1102274	GEYSERVILLE 1102	5.783132686		Sonoma	Tier 2	FALSE	TRUE	TRUE
GEYSERVILLE 1102331444	GEYSERVILLE 1102	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
GEYSERVILLE 1102350	GEYSERVILLE 1102	1.766356863		Sonoma	Tier 2	TRUE	TRUE	TRUE
GEYSERVILLE 1102484	GEYSERVILLE 1102	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
GEYSERVILLE 110249056	GEYSERVILLE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
GEYSERVILLE 1102501402	GEYSERVILLE 1102	0.015530498		Sonoma	Tier 2	FALSE	TRUE	TRUE
GEYSERVILLE 1102504260	GEYSERVILLE 1102	2.039787708		Sonoma	Tier 3	TRUE	TRUE	TRUE
GEYSERVILLE 1102522	GEYSERVILLE 1102	5.934128743		Sonoma	Tier 3	FALSE	TRUE	TRUE
GEYSERVILLE 1102537096	GEYSERVILLE 1102	0.469285822		Sonoma	Tier 2	FALSE	TRUE	FALSE
GEYSERVILLE 1102548206	GEYSERVILLE 1102	0.297853194		Sonoma	Tier 2	FALSE	TRUE	FALSE
GEYSERVILLE 1102735600	GEYSERVILLE 1102	5.57855566		Sonoma	Tier 3	TRUE	TRUE	TRUE
GEYSERVILLE 1102756	GEYSERVILLE 1102	0.606347048		Sonoma	Tier 2	FALSE	TRUE	TRUE
GEYSERVILLE 1102776178	GEYSERVILLE 1102	1.468278026		Sonoma	Tier 3	TRUE	TRUE	FALSE
GEYSERVILLE 1102785626	GEYSERVILLE 1102	4.342654379		Sonoma	Tier 2	TRUE	TRUE	TRUE
GEYSERVILLE 1102868292	GEYSERVILLE 1102	2.208746744		Sonoma	Tier 3	FALSE	TRUE	TRUE
GEYSERVILLE 110289714	GEYSERVILLE 1102	2.055146841		Sonoma	Tier 2	FALSE	TRUE	TRUE
GEYSERVILLE 1102CB	GEYSERVILLE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
GIFFEN 11029140	GIFFEN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GIFFEN 11029320	GIFFEN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GIFFEN 11029590	GIFFEN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GIFFEN 11029600	GIFFEN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GIFFEN 1102CB	GIFFEN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GIFFEN 1103301980	GIFFEN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GIFFEN 11039325	GIFFEN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GIFFEN 11039620	GIFFEN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GIFFEN 1103CB	GIFFEN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GIFFEN 1103R3610	GIFFEN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GIFFEN 1106CB	GIFFEN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GIFFEN 1107CB	GIFFEN 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
GILL 0401CB	GILL 0401	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
GILL 0402CB	GILL 0402	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
GIRVAN 11011330	GIRVAN 1101	25.35051792		Shasta	Tier 3	TRUE	TRUE	TRUE
GIRVAN 11011636	GIRVAN 1101	1.797861728		Shasta	Tier 2	FALSE	TRUE	TRUE
GIRVAN 1101257982	GIRVAN 1101	4.048474702		Shasta	Tier 2	TRUE	TRUE	FALSE
GIRVAN 1101323094	GIRVAN 1101	33.92251208		Shasta	Tier 2	TRUE	TRUE	TRUE
GIRVAN 1101409530	GIRVAN 1101	13.8007108		Shasta	Tier 3	TRUE	TRUE	TRUE
GIRVAN 11019732	GIRVAN 1101	21.00561081		Shasta	Tier 3	TRUE	TRUE	TRUE
GIRVAN 11021028	GIRVAN 1102	17.70855842		Shasta	Tier 3	TRUE	TRUE	TRUE
GIRVAN 1102212096	GIRVAN 1102	2.426965988		Shasta	Tier 2	FALSE	TRUE	FALSE
GIRVAN 1102259230	GIRVAN 1102	0.213790033		Shasta	Tier 2	FALSE	TRUE	TRUE
GIRVAN 1102296428	GIRVAN 1102	1.665491325		Shasta	Tier 3	FALSE	TRUE	TRUE
GIRVAN 110255307	GIRVAN 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
GIRVAN 110280726	GIRVAN 1102	6.446724056		Shasta	Tier 2	FALSE	TRUE	TRUE
GIRVAN 11029012	GIRVAN 1102	15.55722158		Shasta	Tier 3	TRUE	TRUE	TRUE
GIRVAN 1102CB	GIRVAN 1102	0.386904925		Shasta	Tier 2	FALSE	TRUE	TRUE
GLENN 11012010	GLENN 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
GLENN 11012012	GLENN 1101	0.263243875		Glenn	Tier 2	FALSE	TRUE	TRUE
GLENN 11012416	GLENN 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
GLENN 11012550	GLENN 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
GLENN 11012552	GLENN 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GLENN 110133450	GLENN 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
GLENN 110137496	GLENN 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
GLENN 110152954	GLENN 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
GLENN 1101546764	GLENN 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
GLENN 1101CB	GLENN 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
GLENWOOD 0404CB	GLENWOOD 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
GLENWOOD 0405CB	GLENWOOD 0405	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
GLENWOOD 0406CB	GLENWOOD 0406	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
GLENWOOD 11013855	GLENWOOD 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
GLENWOOD 110144610	GLENWOOD 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
GLENWOOD 110168889	GLENWOOD 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
GLENWOOD 1101CB	GLENWOOD 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
GLENWOOD 110280757	GLENWOOD 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
GLENWOOD 1102CB	GLENWOOD 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
GOLDTREE 1105551904	GOLDTREE 1105	0.022194036		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
GOLDTREE 1105588830	GOLDTREE 1105	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
GOLDTREE 1105912920	GOLDTREE 1105	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
GOLDTREE 1105944608	GOLDTREE 1105	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
GOLDTREE 1105CB	GOLDTREE 1105	6.832723438		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
GOLDTREE 1107477878	GOLDTREE 1107	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
GOLDTREE 1107CB	GOLDTREE 1107	0.936313267		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
GOLDTREE 110814115	GOLDTREE 1108	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
GOLDTREE 110815803	GOLDTREE 1108	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
GOLDTREE 1108939400	GOLDTREE 1108	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
GOLDTREE 1108961060	GOLDTREE 1108	1.420391208		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
GOLDTREE 1108CB	GOLDTREE 1108	2.027543078		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
GONZALES 11013094	GONZALES 1101	3.889949746		Monterey	Tier 2	FALSE	TRUE	TRUE
GONZALES 1101522356	GONZALES 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GONZALES 110165704	GONZALES 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GONZALES 1101CB	GONZALES 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GONZALES 1102CB	GONZALES 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GONZALES 1103684642	GONZALES 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GONZALES 1103727404	GONZALES 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GONZALES 1103CB	GONZALES 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GONZALES 110422418	GONZALES 1104	0.738620158		Monterey	Tier 2	FALSE	TRUE	TRUE
GONZALES 110422420	GONZALES 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GONZALES 110436982	GONZALES 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GONZALES 1104415382	GONZALES 1104	0.003638925		Monterey	Tier 2	FALSE	TRUE	TRUE
GONZALES 1104CB	GONZALES 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 1101CB	GOOSE LAKE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 11033244	GOOSE LAKE 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 1103414584	GOOSE LAKE 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 1103559711	GOOSE LAKE 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 110356686	GOOSE LAKE 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 1103CB	GOOSE LAKE 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 11061162	GOOSE LAKE 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 11063290	GOOSE LAKE 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 1106CB	GOOSE LAKE 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 21041472	GOOSE LAKE 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
GOOSE LAKE 2104210300	GOOSE LAKE 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 2104573054	GOOSE LAKE 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 2104654010	GOOSE LAKE 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 2104922100	GOOSE LAKE 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 2104993374	GOOSE LAKE 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GOOSE LAKE 2104CB	GOOSE LAKE 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 222318132	GRAND ISLAND 2223	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 222322452	GRAND ISLAND 2223	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 222347924	GRAND ISLAND 2223	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22238492	GRAND ISLAND 2223	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22238852	GRAND ISLAND 2223	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22239482	GRAND ISLAND 2223	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22239492	GRAND ISLAND 2223	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 2223CB	GRAND ISLAND 2223	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 222412362	GRAND ISLAND 2224	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 222418122	GRAND ISLAND 2224	0		Sacramento	Non-HFTD	TRUE	TRUE	FALSE
GRAND ISLAND 222418332	GRAND ISLAND 2224	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22248882	GRAND ISLAND 2224	0		Sacramento	Non-HFTD	TRUE	TRUE	FALSE
GRAND ISLAND 222492264	GRAND ISLAND 2224	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 2224CB	GRAND ISLAND 2224	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 222550300	GRAND ISLAND 2225	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22255902	GRAND ISLAND 2225	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22258872	GRAND ISLAND 2225	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 2225CB	GRAND ISLAND 2225	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 2226292892	GRAND ISLAND 2226	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 2226CB	GRAND ISLAND 2226	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22272802	GRAND ISLAND 2227	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 222747742	GRAND ISLAND 2227	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 222756352	GRAND ISLAND 2227	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22275882	GRAND ISLAND 2227	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22276532	GRAND ISLAND 2227	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 2227764912	GRAND ISLAND 2227	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22278302	GRAND ISLAND 2227	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22278862	GRAND ISLAND 2227	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22279442	GRAND ISLAND 2227	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 22279452	GRAND ISLAND 2227	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
GRAND ISLAND 2227CB	GRAND ISLAND 2227	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1102CB	GRANT 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1103CB	GRANT 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1104379664	GRANT 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1104CB	GRANT 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1105CB	GRANT 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1105MR362	GRANT 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1105MR363	GRANT 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1106CB	GRANT 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1106MR664	GRANT 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1107CB	GRANT 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1107MR221	GRANT 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1108CB	GRANT 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1108MR353	GRANT 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRANT 1108MR354	GRANT 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
GRASS VALLEY 11012208	GRASS VALLEY 1101	12.85563122		Nevada	Tier 2	FALSE	TRUE	TRUE
GRASS VALLEY 11012766	GRASS VALLEY 1101	3.257360951		Nevada	Tier 3	FALSE	TRUE	TRUE
GRASS VALLEY 1101750804	GRASS VALLEY 1101	0.242025268		Nevada	Tier 2	FALSE	TRUE	TRUE
GRASS VALLEY 1101CB	GRASS VALLEY 1101	0.749569874		Nevada	Tier 2	FALSE	TRUE	TRUE
GRASS VALLEY 1102CB	GRASS VALLEY 1102	0.062034792		Nevada	Tier 2	TRUE	TRUE	TRUE
GRASS VALLEY 11031700	GRASS VALLEY 1103	21.68612988		Nevada	Tier 2	TRUE	TRUE	TRUE
GRASS VALLEY 11032110	GRASS VALLEY 1103	19.20124797		Nevada	Tier 2	FALSE	TRUE	TRUE
GRASS VALLEY 11032180	GRASS VALLEY 1103	43.99329208		Nevada	Tier 2	FALSE	TRUE	TRUE
GRASS VALLEY 110358498	GRASS VALLEY 1103	1.049235213		Nevada	Tier 2	FALSE	TRUE	TRUE
GRASS VALLEY 1103CB	GRASS VALLEY 1103	0.113835003		Nevada	Tier 2	FALSE	TRUE	TRUE
GRAYS FLAT 0401904916	GRAYS FLAT 0401	10.59385659		Plumas	Tier 2	TRUE	TRUE	TRUE
GRAYS FLAT 0401CB	GRAYS FLAT 0401	0.038326827		Plumas	Tier 2	TRUE	TRUE	TRUE
GREEN VALLEY 210110976	GREEN VALLEY 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210111054	GREEN VALLEY 2101	23.58723119		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
GREEN VALLEY 210112106	GREEN VALLEY 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210112126	GREEN VALLEY 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210112130	GREEN VALLEY 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210112824	GREEN VALLEY 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 2101128618	GREEN VALLEY 2101	0.214429007		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
GREEN VALLEY 2101135762	GREEN VALLEY 2101	0.591958382		Santa Cruz	Tier 2	FALSE	TRUE	FALSE
GREEN VALLEY 210136820	GREEN VALLEY 2101	6.335964213		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
GREEN VALLEY 2101380922	GREEN VALLEY 2101	0.743704204		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
GREEN VALLEY 2101454176	GREEN VALLEY 2101	4.681646296		Santa Cruz	Tier 3	FALSE	TRUE	FALSE
GREEN VALLEY 2101509068	GREEN VALLEY 2101	0.956433444		Santa Cruz	Tier 2	FALSE	TRUE	FALSE
GREEN VALLEY 21016625	GREEN VALLEY 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210182789	GREEN VALLEY 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210190860	GREEN VALLEY 2101	3.215010224		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
GREEN VALLEY 2101912058	GREEN VALLEY 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 2101CB	GREEN VALLEY 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210210260	GREEN VALLEY 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210211036	GREEN VALLEY 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 2102CB	GREEN VALLEY 2102	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210310438	GREEN VALLEY 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210310932	GREEN VALLEY 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210312656	GREEN VALLEY 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 2103186292	GREEN VALLEY 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 2103478624	GREEN VALLEY 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 21034929	GREEN VALLEY 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 21035140	GREEN VALLEY 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 21036661	GREEN VALLEY 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 2103938286	GREEN VALLEY 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210395184	GREEN VALLEY 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210397492	GREEN VALLEY 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 21039959	GREEN VALLEY 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 2103CB	GREEN VALLEY 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210410266	GREEN VALLEY 2104	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210412552	GREEN VALLEY 2104	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210412776	GREEN VALLEY 2104	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210449146	GREEN VALLEY 2104	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREEN VALLEY 210485200	GREEN VALLEY 2104	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
GREEN VALLEY 2104CB	GREEN VALLEY 2104	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
GREENBRAE 110182270	GREENBRAE 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
GREENBRAE 1101CB	GREENBRAE 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
GREENBRAE 11021254	GREENBRAE 1102	5.733681319		Marin	Tier 3	FALSE	TRUE	TRUE
GREENBRAE 110276992	GREENBRAE 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
GREENBRAE 1102CB	GREENBRAE 1102	0.123947364		Marin	Non-HFTD	FALSE	FALSE	FALSE
GREENBRAE 1103343788	GREENBRAE 1103	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
GREENBRAE 1103718674	GREENBRAE 1103	0.754418554		Marin	Tier 2	FALSE	TRUE	FALSE
GREENBRAE 11037315	GREENBRAE 1103	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
GREENBRAE 1103CB	GREENBRAE 1103	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
GREENBRAE 1104107508	GREENBRAE 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
GREENBRAE 11041302	GREENBRAE 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
GREENBRAE 1104300	GREENBRAE 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
GREENBRAE 1104751	GREENBRAE 1104	0.183685912		Marin	Tier 2	FALSE	TRUE	TRUE
GREENBRAE 110498902	GREENBRAE 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
GREENBRAE 1104CB	GREENBRAE 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
GUALALA 1111289822	GUALALA 1111	2.590628019		Sonoma	Tier 2	FALSE	TRUE	FALSE
GUALALA 111135562	GUALALA 1111	14.35707264		Mendocino	Tier 2	FALSE	TRUE	FALSE
GUALALA 1111402866	GUALALA 1111	1.480224929		Mendocino	Tier 2	FALSE	TRUE	FALSE
GUALALA 1111445166	GUALALA 1111	5.71977914		Sonoma	Tier 2	FALSE	TRUE	FALSE
GUALALA 1111887180	GUALALA 1111	5.104423707		Sonoma	Tier 2	FALSE	TRUE	FALSE
GUALALA 1111CB	GUALALA 1111	3.935916903		Mendocino	Tier 2	FALSE	TRUE	TRUE
GUALALA 11121294	GUALALA 1112	19.61401606		Mendocino	Tier 2	FALSE	TRUE	FALSE
GUALALA 111223444	GUALALA 1112	14.71184646		Mendocino	Tier 2	FALSE	TRUE	FALSE
GUALALA 1112662	GUALALA 1112	7.096901246		Mendocino	Tier 2	FALSE	TRUE	TRUE
GUALALA 1112CB	GUALALA 1112	1.545851842		Mendocino	Tier 2	FALSE	TRUE	TRUE
GUERNSEY 1101176309	GUERNSEY 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 110147746	GUERNSEY 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1101491366	GUERNSEY 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1101700790	GUERNSEY 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 110178276	GUERNSEY 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 11018260	GUERNSEY 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 110192702	GUERNSEY 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1101CB	GUERNSEY 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 110255746	GUERNSEY 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 11028390	GUERNSEY 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 11028450	GUERNSEY 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1102CB	GUERNSEY 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1103849262	GUERNSEY 1103	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1103941042	GUERNSEY 1103	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1103CB	GUERNSEY 1103	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1104326076	GUERNSEY 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1104695204	GUERNSEY 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 11048380	GUERNSEY 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 11048630	GUERNSEY 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1104CB	GUERNSEY 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1105CB	GUERNSEY 1105	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1106184691	GUERNSEY 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 110668132	GUERNSEY 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1106CB	GUERNSEY 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUERNSEY 1108CB	GUERNSEY 1108	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 11011524	GUSTINE 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 11013502	GUSTINE 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 110137354	GUSTINE 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 11017014	GUSTINE 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 110179806	GUSTINE 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 11019120	GUSTINE 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 1101CB	GUSTINE 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 110246166	GUSTINE 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 110264140	GUSTINE 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 11026926	GUSTINE 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 110290260	GUSTINE 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 11029100	GUSTINE 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 11029628	GUSTINE 1102	0.086540728		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 1102999258	GUSTINE 1102	7.19558397		Merced	Non-HFTD	FALSE	FALSE	FALSE
GUSTINE 1102CB	GUSTINE 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 1101125326	HALF MOON BAY 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 11012500	HALF MOON BAY 1101	5.811605685		San Mateo	Tier 3	FALSE	TRUE	TRUE
HALF MOON BAY 110148868	HALF MOON BAY 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 110155210	HALF MOON BAY 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 11016369	HALF MOON BAY 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 1101818874	HALF MOON BAY 1101	5.412287123		San Mateo	Tier 3	FALSE	TRUE	TRUE
HALF MOON BAY 1101821698	HALF MOON BAY 1101	0.797428034		San Mateo	Tier 3	FALSE	TRUE	FALSE
HALF MOON BAY 1101857728	HALF MOON BAY 1101	0.552000452		San Mateo	Tier 3	FALSE	TRUE	TRUE
HALF MOON BAY 11018902	HALF MOON BAY 1101	11.00715176		San Mateo	Tier 3	FALSE	TRUE	TRUE
HALF MOON BAY 11018940	HALF MOON BAY 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 1101CB	HALF MOON BAY 1101	1.369791521		San Mateo	Tier 3	FALSE	TRUE	TRUE
HALF MOON BAY 11022032	HALF MOON BAY 1102	0.587739634		San Mateo	Tier 3	FALSE	TRUE	TRUE
HALF MOON BAY 1102350336	HALF MOON BAY 1102	1.081737305		San Mateo	Tier 3	FALSE	TRUE	TRUE
HALF MOON BAY 110258448	HALF MOON BAY 1102	3.264531193		San Mateo	Tier 3	FALSE	TRUE	FALSE
HALF MOON BAY 110260703	HALF MOON BAY 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 11026097	HALF MOON BAY 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 11026153	HALF MOON BAY 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 110264293	HALF MOON BAY 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 1102665624	HALF MOON BAY 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 1102863822	HALF MOON BAY 1102	0.060020391		San Mateo	Tier 2	FALSE	TRUE	TRUE
HALF MOON BAY 11028848	HALF MOON BAY 1102	3.413948905		San Mateo	Tier 3	FALSE	TRUE	TRUE
HALF MOON BAY 11028910	HALF MOON BAY 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 11029114	HALF MOON BAY 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 1102CB	HALF MOON BAY 1102	0.118413563		San Mateo	Tier 2	FALSE	TRUE	TRUE
HALF MOON BAY 1103157944	HALF MOON BAY 1103	4.275346912		San Mateo	Tier 3	FALSE	TRUE	FALSE
HALF MOON BAY 1103256249	HALF MOON BAY 1103	3.564967805		San Mateo	Tier 2	TRUE	TRUE	TRUE
HALF MOON BAY 110329454	HALF MOON BAY 1103	4.451886932		San Mateo	Tier 2	FALSE	TRUE	FALSE
HALF MOON BAY 1103341542	HALF MOON BAY 1103	1.510012255		San Mateo	Tier 2	FALSE	TRUE	FALSE
HALF MOON BAY 1103389114	HALF MOON BAY 1103	4.863833001		San Mateo	Tier 3	FALSE	TRUE	FALSE
HALF MOON BAY 1103461558	HALF MOON BAY 1103	4.193696557		San Mateo	Tier 2	FALSE	TRUE	FALSE
HALF MOON BAY 1103531594	HALF MOON BAY 1103	2.349735391		San Mateo	Tier 2	FALSE	TRUE	FALSE
HALF MOON BAY 11036012	HALF MOON BAY 1103	2.845083651		San Mateo	Tier 2	TRUE	TRUE	TRUE
HALF MOON BAY 11036014	HALF MOON BAY 1103	4.294900863		San Mateo	Tier 2	FALSE	TRUE	TRUE
HALF MOON BAY 11036018	HALF MOON BAY 1103	14.80670879		San Mateo	Tier 2	FALSE	TRUE	TRUE
HALF MOON BAY 1103623460	HALF MOON BAY 1103	8.318806434		San Mateo	Tier 3	FALSE	TRUE	TRUE

Workpaper 032
Pacific Gas and Electric Company
Electrical Undergrounding Program
Circuit Segment List
(Continued)

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
HALF MOON BAY 1103655644	HALF MOON BAY 1103	9.026818201		San Mateo	Tier 2	TRUE	TRUE	TRUE
HALF MOON BAY 110376762	HALF MOON BAY 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 1103825502	HALF MOON BAY 1103	1.451952782		San Mateo	Tier 2	FALSE	TRUE	FALSE
HALF MOON BAY 1103869962	HALF MOON BAY 1103	0.806918355		San Mateo	Tier 2	FALSE	TRUE	TRUE
HALF MOON BAY 1103880484	HALF MOON BAY 1103	7.633944305		San Mateo	Tier 2	FALSE	TRUE	TRUE
HALF MOON BAY 11038894	HALF MOON BAY 1103	10.80951958		San Mateo	Tier 2	FALSE	TRUE	TRUE
HALF MOON BAY 11038898	HALF MOON BAY 1103	0.619743146		San Mateo	Tier 2	FALSE	TRUE	FALSE
HALF MOON BAY 11038920	HALF MOON BAY 1103	8.461431069		San Mateo	Tier 2	FALSE	TRUE	TRUE
HALF MOON BAY 11039112	HALF MOON BAY 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HALF MOON BAY 110398440	HALF MOON BAY 1103	8.30050466		San Mateo	Tier 2	FALSE	TRUE	FALSE
HALF MOON BAY 1103CB	HALF MOON BAY 1103	1.567535073		San Mateo	Tier 2	FALSE	TRUE	TRUE
HALF MOON BAY 1103H80	HALF MOON BAY 1103	19.74292081		San Mateo	Tier 2	FALSE	TRUE	TRUE
HALSEY 11011704	HALSEY 1101	13.28136219		Placer	Tier 2	FALSE	TRUE	FALSE
HALSEY 11012414	HALSEY 1101	14.76082411		Placer	Tier 2	FALSE	TRUE	TRUE
HALSEY 11015731	HALSEY 1101	3.115406106		Placer	Tier 2	FALSE	TRUE	TRUE
HALSEY 110176178	HALSEY 1101	20.27157313		Placer	Tier 2	FALSE	TRUE	FALSE
HALSEY 1101CB	HALSEY 1101	17.25946684		Placer	Tier 2	FALSE	TRUE	TRUE
HALSEY 1102164068	HALSEY 1102	0.438946391		Placer	Tier 2	FALSE	TRUE	TRUE
HALSEY 11022514	HALSEY 1102	0.365570488		Placer	Tier 2	FALSE	TRUE	TRUE
HALSEY 1102281660	HALSEY 1102	1.516524764		Placer	Tier 2	FALSE	TRUE	FALSE
HALSEY 1102318786	HALSEY 1102	0.536763856		Placer	Tier 2	FALSE	TRUE	FALSE
HALSEY 110239104	HALSEY 1102	21.23796895		Placer	Tier 2	FALSE	TRUE	TRUE
HALSEY 1102514616	HALSEY 1102	0.568178146		Placer	Tier 2	FALSE	TRUE	FALSE
HALSEY 1102664826	HALSEY 1102	3.291903423		Placer	Tier 2	FALSE	TRUE	TRUE
HALSEY 1102676064	HALSEY 1102	4.384238993		Placer	Tier 2	FALSE	TRUE	TRUE
HALSEY 1102751626	HALSEY 1102	2.87954692		Placer	Tier 2	FALSE	TRUE	TRUE
HALSEY 1102CB	HALSEY 1102	14.15828986		Placer	Tier 2	FALSE	TRUE	TRUE
HAMILTON A 11012036	HAMILTON A 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
HAMILTON A 110175208	HAMILTON A 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
HAMILTON A 1101CB	HAMILTON A 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
HAMILTON A 11022210	HAMILTON A 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
HAMILTON A 1102CB	HAMILTON A 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
HAMILTON BRANCH 1101161872	HAMILTON BRANCH 1101	4.044595837		Plumas	Tier 2	FALSE	TRUE	FALSE
HAMILTON BRANCH 11012046	HAMILTON BRANCH 1101	8.695728485		Lassen	Tier 2	FALSE	TRUE	FALSE
HAMILTON BRANCH 11012082	HAMILTON BRANCH 1101	1.361081314		Plumas	Tier 2	FALSE	TRUE	TRUE
HAMILTON BRANCH 11012436	HAMILTON BRANCH 1101	1.307003198		Plumas	Tier 2	FALSE	TRUE	FALSE
HAMILTON BRANCH 11013049	HAMILTON BRANCH 1101	0.882575974		Plumas	Tier 2	FALSE	TRUE	TRUE
HAMILTON BRANCH 110137436	HAMILTON BRANCH 1101	0.552534782		Plumas	Tier 2	FALSE	TRUE	TRUE
HAMILTON BRANCH 110137534	HAMILTON BRANCH 1101	0		Plumas	Non-HFTD	FALSE	FALSE	FALSE
HAMILTON BRANCH 110153192	HAMILTON BRANCH 1101	0.519104373		Plumas	Tier 2	FALSE	TRUE	TRUE
HAMILTON BRANCH 110187784	HAMILTON BRANCH 1101	1.455427146		Plumas	Tier 2	FALSE	TRUE	FALSE
HAMILTON BRANCH 110190334	HAMILTON BRANCH 1101	3.429735269		Plumas	Tier 2	FALSE	TRUE	FALSE
HAMILTON BRANCH 1101CB	HAMILTON BRANCH 1101	2.072375106		Plumas	Tier 2	FALSE	TRUE	TRUE
HAMMER 110175256	HAMMER 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 1101CB	HAMMER 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 110291106	HAMMER 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 1102CB	HAMMER 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 1103CB	HAMMER 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 110414704	HAMMER 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 1104CB	HAMMER 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 11052943	HAMMER 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 11058624	HAMMER 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 1105CB	HAMMER 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 110614602	HAMMER 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 1106967040	HAMMER 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 1106CB	HAMMER 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 110812452	HAMMER 1108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 1108CB	HAMMER 1108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMER 1109CB	HAMMER 1109	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HAMMONDS 11017250	HAMMONDS 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HAMMONDS 11019760	HAMMONDS 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HAMMONDS 1101CB	HAMMONDS 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HAMMONDS 110212100	HAMMONDS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HAMMONDS 110212140	HAMMONDS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HAMMONDS 1102CB	HAMMONDS 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HAMMONDS 11043660	HAMMONDS 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HAMMONDS 11043670	HAMMONDS 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HAMMONDS 110448426	HAMMONDS 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HAMMONDS 110449120	HAMMONDS 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HAMMONDS 1104CB	HAMMONDS 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HARDING 0401CB	HARDING 0401	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HARDING 0402CB	HARDING 0402	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HARDING 0403CB	HARDING 0403	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HARDING 0404CB	HARDING 0404	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HARDING 0405CB	HARDING 0405	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HARDING 0406CB	HARDING 0406	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HARDWICK 11016510	HARDWICK 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HARDWICK 11016840	HARDWICK 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HARDWICK 110175900	HARDWICK 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HARDWICK 1101CB	HARDWICK 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HARDWICK 1102249398	HARDWICK 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HARDWICK 11025050	HARDWICK 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HARDWICK 11026020	HARDWICK 1102	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
HARDWICK 11026050	HARDWICK 1102	0		Kings	Non-HFTD	TRUE	TRUE	FALSE
HARDWICK 11026100	HARDWICK 1102	0		Kings	Non-HFTD	TRUE	TRUE	FALSE
HARDWICK 11026350	HARDWICK 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HARDWICK 11026360	HARDWICK 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HARDWICK 1102CB	HARDWICK 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HARRIS 11082062	HARRIS 1108	1.432346573		Humboldt	Tier 2	FALSE	TRUE	TRUE
HARRIS 1108395498	HARRIS 1108	0.103770497		Humboldt	Tier 2	FALSE	TRUE	TRUE
HARRIS 11084674	HARRIS 1108	0.169795371		Humboldt	Tier 2	FALSE	TRUE	TRUE
HARRIS 11085984	HARRIS 1108	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HARRIS 110866386	HARRIS 1108	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HARRIS 11087920	HARRIS 1108	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HARRIS 1108CB	HARRIS 1108	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HARRIS 1109183860	HARRIS 1109	4.866288642		Humboldt	Tier 2	FALSE	TRUE	FALSE
HARRIS 1109355914	HARRIS 1109	7.871980285		Humboldt	Tier 2	FALSE	TRUE	FALSE
HARRIS 11095982	HARRIS 1109	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HARRIS 1109700	HARRIS 1109	1.680333568		Humboldt	Tier 2	TRUE	TRUE	TRUE
HARRIS 11098862	HARRIS 1109	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HARRIS 1109CB	HARRIS 1109	0		Humboldt	Non-HFTD	TRUE	TRUE	FALSE

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
HARTER 1102CB	HARTER 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
HARTER 1104CB	HARTER 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
HARTER 11052294	HARTER 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
HARTER 1105469850	HARTER 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
HARTER 1105CB	HARTER 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
HARTER 1106CB	HARTER 1106	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
HARTER 110774924	HARTER 1107	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
HARTER 110790768	HARTER 1107	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
HARTER 1107CB	HARTER 1107	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
HARTLEY 11011306	HARTLEY 1101	0.802787437		Lake	Tier 2	FALSE	TRUE	TRUE
HARTLEY 1101336932	HARTLEY 1101	8.073670819		Lake	Tier 2	FALSE	TRUE	TRUE
HARTLEY 11014710	HARTLEY 1101	1.522779798		Lake	Tier 2	FALSE	TRUE	FALSE
HARTLEY 1101658	HARTLEY 1101	0.464782123		Lake	Tier 2	TRUE	TRUE	TRUE
HARTLEY 110167994	HARTLEY 1101	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
HARTLEY 1101698	HARTLEY 1101	19.38317017		Lake	Tier 2	TRUE	TRUE	TRUE
HARTLEY 1101738	HARTLEY 1101	1.06367467		Lake	Tier 2	FALSE	TRUE	TRUE
HARTLEY 1101789752	HARTLEY 1101	2.70240326		Lake	Tier 2	TRUE	TRUE	TRUE
HARTLEY 110186876	HARTLEY 1101	2.355739969		Lake	Tier 2	FALSE	TRUE	TRUE
HARTLEY 110194178	HARTLEY 1101	2.059690715		Lake	Tier 2	FALSE	TRUE	TRUE
HARTLEY 1101CB	HARTLEY 1101	1.306611715		Lake	Tier 2	FALSE	TRUE	TRUE
HARTLEY 1102113786	HARTLEY 1102	0.497365683		Lake	Tier 2	FALSE	TRUE	FALSE
HARTLEY 1102247988	HARTLEY 1102	2.231985293		Lake	Tier 2	TRUE	TRUE	TRUE
HARTLEY 1102471	HARTLEY 1102	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
HARTLEY 1102490	HARTLEY 1102	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
HARTLEY 1102524	HARTLEY 1102	1.114750569		Lake	Tier 2	FALSE	TRUE	FALSE
HARTLEY 1102841676	HARTLEY 1102	0.018728085		Lake	Tier 2	FALSE	TRUE	TRUE
HARTLEY 1102920190	HARTLEY 1102	0.781948179		Lake	Tier 2	FALSE	TRUE	TRUE
HARTLEY 1102CB	HARTLEY 1102	0.618366804		Lake	Tier 2	FALSE	TRUE	TRUE
HATTON 11012026	HATTON 1101	4.926734509		Monterey	Tier 2	FALSE	TRUE	TRUE
HATTON 11012654	HATTON 1101	1.814314262		Monterey	Tier 2	FALSE	TRUE	FALSE
HATTON 110137088	HATTON 1101	5.76439835		Monterey	Tier 3	FALSE	TRUE	TRUE
HATTON 1101399900	HATTON 1101	0.401020666		Monterey	Tier 2	FALSE	TRUE	TRUE
HATTON 110175304	HATTON 1101	5.564667448		Monterey	Tier 2	FALSE	TRUE	TRUE
HATTON 1101CB	HATTON 1101	1.920638736		Monterey	Tier 2	FALSE	TRUE	TRUE
HATTON 11022010	HATTON 1102	3.995047515		Monterey	Tier 2	FALSE	TRUE	FALSE
HATTON 11022070	HATTON 1102	0.486710805		Monterey	Tier 2	FALSE	TRUE	TRUE
HATTON 110240461	HATTON 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
HATTON 110240465	HATTON 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
HATTON 110256680	HATTON 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
HATTON 1102648928	HATTON 1102	3.809200455		Monterey	Tier 2	FALSE	TRUE	FALSE
HATTON 11029642	HATTON 1102	1.219261269		Monterey	Tier 2	FALSE	TRUE	FALSE
HATTON 1102CB	HATTON 1102	1.880016874		Monterey	Tier 2	FALSE	TRUE	TRUE
HAYWARD O 0401CB	HAYWARD O 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
HAYWARD O 0402CB	HAYWARD O 0402	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 11048240	HENRIETTA 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 11048550	HENRIETTA 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 11048560	HENRIETTA 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 1104CB	HENRIETTA 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 110655710	HENRIETTA 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 110656636	HENRIETTA 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 11068710	HENRIETTA 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 1106CB	HENRIETTA 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 110849938	HENRIETTA 1108	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 11089350	HENRIETTA 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 1108CB	HENRIETTA 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 11108210	HENRIETTA 1110	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 111099242	HENRIETTA 1110	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HENRIETTA 1110CB	HENRIETTA 1110	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
HERDLYN 1102575178	HERDLYN 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HERDLYN 1102608254	HERDLYN 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HERDLYN 1102609338	HERDLYN 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
HERDLYN 1102973026	HERDLYN 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
HERDLYN 110299602	HERDLYN 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
HERDLYN 1102B569R	HERDLYN 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
HERDLYN 1102CB	HERDLYN 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
HERDLYN 1102CUS1379	HERDLYN 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
HERDLYN 110311754	HERDLYN 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HERDLYN 11038046	HERDLYN 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HERDLYN 11038048	HERDLYN 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HERDLYN 1103CB	HERDLYN 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
HICKS 1108CB	HICKS 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 110913234	HICKS 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 1109CB	HICKS 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 1109XR138	HICKS 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 1110CB	HICKS 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 1110XR308	HICKS 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 1111CB	HICKS 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 1111XR220	HICKS 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 1112CB	HICKS 1112	0		Santa Clara	Non-HFTD	TRUE	TRUE	FALSE
HICKS 1113CB	HICKS 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 1113XR180	HICKS 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 1114CB	HICKS 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 1114XR182	HICKS 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 111512494	HICKS 1115	0.045358953		Santa Clara	Tier 2	FALSE	TRUE	TRUE
HICKS 1115CB	HICKS 1115	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 1116583284	HICKS 1116	0.138506011		Santa Clara	Tier 2	FALSE	TRUE	FALSE
HICKS 111660050	HICKS 1116	8.136022641		Santa Clara	Tier 2	FALSE	TRUE	FALSE
HICKS 1116647210	HICKS 1116	2.624109397		Santa Clara	Tier 2	FALSE	TRUE	TRUE
HICKS 1116733078	HICKS 1116	0.322865086		Santa Clara	Tier 2	FALSE	TRUE	FALSE
HICKS 1116983580	HICKS 1116	2.360287438		Santa Clara	Tier 2	FALSE	TRUE	FALSE
HICKS 1116CB	HICKS 1116	0.288824329		Santa Clara	Tier 2	FALSE	TRUE	TRUE
HICKS 1116LB16	HICKS 1116	0.123831765		Santa Clara	Tier 2	FALSE	TRUE	TRUE
HICKS 2101984788	HICKS 2101	1.026085132		Santa Clara	Tier 2	FALSE	TRUE	FALSE
HICKS 2101CB	HICKS 2101	3.360851691		Santa Clara	Tier 2	FALSE	TRUE	TRUE
HICKS 2101XR162	HICKS 2101	0.817181607		Santa Clara	Tier 2	FALSE	TRUE	TRUE
HICKS 2101XR250	HICKS 2101	7.404280064		Santa Clara	Tier 3	FALSE	TRUE	TRUE
HICKS 2101XR548	HICKS 2101	0.523224427		Santa Clara	Tier 2	FALSE	TRUE	TRUE
HICKS 2102CB	HICKS 2102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 2102XR384	HICKS 2102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 2103CB	HICKS 2103	0.622045383		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 2103LB50	HICKS 2103	7.519427409		Santa Clara	Tier 3	FALSE	TRUE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
HICKS 2103XR068	HICKS 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 2103XR248	HICKS 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 2103XR262	HICKS 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 2105CB	HICKS 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 2105XR174	HICKS 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 2105XR516	HICKS 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 2111255740	HICKS 2111	0		Santa Clara	Non-HFTD	TRUE	TRUE	FALSE
HICKS 2111CB	HICKS 2111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 2111XR042	HICKS 2111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 2111XR154	HICKS 2111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HICKS 2111XR210	HICKS 2111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
HIGGINS 11032194	HIGGINS 1103	2.751187159		Nevada	Tier 2	FALSE	TRUE	FALSE
HIGGINS 110332120	HIGGINS 1103	39.99918471		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 110350072	HIGGINS 1103	55.4438255		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 1103789714	HIGGINS 1103	41.22550738		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 11039753	HIGGINS 1103	1.991441002		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 1103995672	HIGGINS 1103	4.765511236		Nevada	Tier 2	FALSE	TRUE	FALSE
HIGGINS 1103CB	HIGGINS 1103	0.781693582		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 11041006	HIGGINS 1104	21.14331408		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 11041374	HIGGINS 1104	8.071102471		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 1104324510	HIGGINS 1104	12.44158854		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 110432747	HIGGINS 1104	1.70732224		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 11044281	HIGGINS 1104	13.35501006		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 1104498932	HIGGINS 1104	4.167530945		Nevada	Tier 2	FALSE	TRUE	FALSE
HIGGINS 1104533648	HIGGINS 1104	6.729688437		Nevada	Tier 2	FALSE	TRUE	FALSE
HIGGINS 1104842642	HIGGINS 1104	5.636851434		Nevada	Tier 2	FALSE	TRUE	FALSE
HIGGINS 1104CB	HIGGINS 1104	11.12119414		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 11071070	HIGGINS 1107	7.491726936		Nevada	Tier 2	FALSE	TRUE	FALSE
HIGGINS 1107746082	HIGGINS 1107	0.81159247		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 11077559	HIGGINS 1107	4.469846541		Nevada	Tier 2	FALSE	TRUE	FALSE
HIGGINS 1107836688	HIGGINS 1107	0.665130296		Nevada	Tier 2	FALSE	TRUE	FALSE
HIGGINS 1107CB	HIGGINS 1107	4.435975711		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 1108CB	HIGGINS 1108	0		Nevada	Non-HFTD	FALSE	FALSE	FALSE
HIGGINS 110950078	HIGGINS 1109	48.93494466		Nevada	Tier 2	FALSE	TRUE	FALSE
HIGGINS 11095703	HIGGINS 1109	4.83812622		Placer	Tier 2	FALSE	TRUE	FALSE
HIGGINS 1109594	HIGGINS 1109	20.79744499		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 1109CB	HIGGINS 1109	8.654802374		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 1110166282	HIGGINS 1110	23.59573688		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 1110197930	HIGGINS 1110	0.949070035		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 11102408	HIGGINS 1110	11.40012217		Nevada	Tier 2	FALSE	TRUE	FALSE
HIGGINS 1110429714	HIGGINS 1110	8.536437322		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGGINS 111051794	HIGGINS 1110	3.950036701		Placer	Tier 2	FALSE	TRUE	TRUE
HIGGINS 1110861610	HIGGINS 1110	0		Nevada	Non-HFTD	FALSE	FALSE	FALSE
HIGGINS 1110CB	HIGGINS 1110	0.470120375		Nevada	Tier 2	FALSE	TRUE	TRUE
HIGHLANDS 1101CB	HIGHLANDS 1101	0.02987246		Lake	Tier 2	FALSE	TRUE	TRUE
HIGHLANDS 11021304	HIGHLANDS 1102	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
HIGHLANDS 1102556	HIGHLANDS 1102	0.028064654		Lake	Tier 2	FALSE	TRUE	TRUE
HIGHLANDS 1102604702	HIGHLANDS 1102	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
HIGHLANDS 1102623120	HIGHLANDS 1102	5.85985768		Lake	Tier 2	FALSE	TRUE	TRUE
HIGHLANDS 1102628	HIGHLANDS 1102	18.32547335		Lake	Tier 3	TRUE	TRUE	TRUE
HIGHLANDS 110265650	HIGHLANDS 1102	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
HIGHLANDS 110275140	HIGHLANDS 1102	7.376381186		Lake	Tier 2	FALSE	TRUE	TRUE
HIGHLANDS 1102914918	HIGHLANDS 1102	0.961884045		Lake	Tier 2	FALSE	TRUE	TRUE
HIGHLANDS 1102CB	HIGHLANDS 1102	7.49117876		Lake	Tier 2	FALSE	TRUE	TRUE
HIGHLANDS 11031282	HIGHLANDS 1103	6.128057192		Lake	Tier 2	FALSE	TRUE	TRUE
HIGHLANDS 1103287766	HIGHLANDS 1103	16.93762213		Lake	Tier 2	TRUE	TRUE	TRUE
HIGHLANDS 11034630	HIGHLANDS 1103	0.608022063		Lake	Tier 2	FALSE	TRUE	TRUE
HIGHLANDS 1103520	HIGHLANDS 1103	43.59816732		Lake	Tier 2	TRUE	TRUE	TRUE
HIGHLANDS 1103568	HIGHLANDS 1103	7.678100588		Lake	Tier 2	TRUE	TRUE	TRUE
HIGHLANDS 1103665096	HIGHLANDS 1103	7.08509066		Lake	Tier 2	TRUE	TRUE	TRUE
HIGHLANDS 1103726580	HIGHLANDS 1103	7.87044086		Lake	Tier 2	FALSE	TRUE	TRUE
HIGHLANDS 1103828	HIGHLANDS 1103	7.254186207		Lake	Tier 2	TRUE	TRUE	TRUE
HIGHLANDS 1103917328	HIGHLANDS 1103	0.182781757		Lake	Tier 2	TRUE	TRUE	TRUE
HIGHLANDS 1103973816	HIGHLANDS 1103	2.710260847		Lake	Tier 2	FALSE	TRUE	FALSE
HIGHLANDS 1103CB	HIGHLANDS 1103	10.3144653		Lake	Tier 2	TRUE	TRUE	TRUE
HIGHLANDS 1104105492	HIGHLANDS 1104	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
HIGHLANDS 110439458	HIGHLANDS 1104	0.984000807		Lake	Tier 2	FALSE	TRUE	TRUE
HIGHLANDS 110448262	HIGHLANDS 1104	6.005228848		Lake	Tier 2	FALSE	TRUE	TRUE
HIGHLANDS 110476156	HIGHLANDS 1104	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
HIGHLANDS 110484640	HIGHLANDS 1104	0.275677055		Lake	Tier 2	FALSE	TRUE	TRUE
HIGHLANDS 110486807	HIGHLANDS 1104	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
HIGHLANDS 110487040	HIGHLANDS 1104	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
HIGHLANDS 1104CB	HIGHLANDS 1104	4.677683476		Lake	Tier 2	TRUE	TRUE	TRUE
HIGHWAY 1101200662	HIGHWAY 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 1101738	HIGHWAY 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 110181590	HIGHWAY 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 1101992028	HIGHWAY 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 1101CB	HIGHWAY 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 1102700	HIGHWAY 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 1102CB	HIGHWAY 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 1103CB	HIGHWAY 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 11044701	HIGHWAY 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 110492586	HIGHWAY 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 1104976	HIGHWAY 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 1104CB	HIGHWAY 1104	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 1105448998	HIGHWAY 1105	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 1105CB	HIGHWAY 1105	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 11062105	HIGHWAY 1106	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
HIGHWAY 1106CB	HIGHWAY 1106	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
HILLSDALE 0401289582	HILLSDALE 0401	0.364591109		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HILLSDALE 040198526	HILLSDALE 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HILLSDALE 0401CB	HILLSDALE 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HILLSDALE 040277056	HILLSDALE 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HILLSDALE 0402CB	HILLSDALE 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HILLSDALE 040344318	HILLSDALE 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HILLSDALE 0403CB	HILLSDALE 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HILLSDALE 040485812	HILLSDALE 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HILLSDALE 0404CB	HILLSDALE 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HILLSDALE 04059156	HILLSDALE 0405	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HILLSDALE 04059158	HILLSDALE 0405	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HILLSDALE 040596742	HILLSDALE 0405	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
HILLSDALE 0405CB	HILLSDALE 0405	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21014790	HOLLISTER 2101	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21014792	HOLLISTER 2101	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21014900	HOLLISTER 2101	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 210157338	HOLLISTER 2101	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 210193404	HOLLISTER 2101	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 2101CB	HOLLISTER 2101	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 2102113634	HOLLISTER 2102	1.551222047		San Benito	Tier 2	FALSE	TRUE	TRUE
HOLLISTER 210228421	HOLLISTER 2102	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 2102406496	HOLLISTER 2102	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21024780	HOLLISTER 2102	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21024908	HOLLISTER 2102	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 2102676164	HOLLISTER 2102	0.123588297		Santa Clara	Tier 2	FALSE	TRUE	TRUE
HOLLISTER 2102855412	HOLLISTER 2102	27.57353633		Santa Clara	Tier 2	FALSE	TRUE	TRUE
HOLLISTER 2102CB	HOLLISTER 2102	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21034402	HOLLISTER 2103	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 210347052	HOLLISTER 2103	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21034816	HOLLISTER 2103	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21034906	HOLLISTER 2103	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 2103CB	HOLLISTER 2103	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21044046	HOLLISTER 2104	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21044068	HOLLISTER 2104	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 210441808	HOLLISTER 2104	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21044403	HOLLISTER 2104	6.170242893		San Benito	Tier 2	FALSE	TRUE	TRUE
HOLLISTER 21044676	HOLLISTER 2104	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21044782	HOLLISTER 2104	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 210491424	HOLLISTER 2104	0.172746738		San Benito	Tier 2	FALSE	TRUE	TRUE
HOLLISTER 2104CB	HOLLISTER 2104	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21054018	HOLLISTER 2105	44.55397575		San Benito	Tier 2	FALSE	TRUE	TRUE
HOLLISTER 21054040	HOLLISTER 2105	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21054042	HOLLISTER 2105	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21054048	HOLLISTER 2105	15.53191072		San Benito	Tier 2	FALSE	TRUE	TRUE
HOLLISTER 21054060	HOLLISTER 2105	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 210542224	HOLLISTER 2105	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21054724	HOLLISTER 2105	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 2105480430	HOLLISTER 2105	0.373826244		San Benito	Tier 2	FALSE	TRUE	TRUE
HOLLISTER 2105903238	HOLLISTER 2105	3.904488783		San Benito	Tier 2	FALSE	TRUE	FALSE
HOLLISTER 2105CB	HOLLISTER 2105	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 2106281712	HOLLISTER 2106	8.09444828		San Benito	Tier 2	FALSE	TRUE	TRUE
HOLLISTER 21064004	HOLLISTER 2106	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21064050	HOLLISTER 2106	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 21064260	HOLLISTER 2106	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 210683518	HOLLISTER 2106	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLISTER 2106CB	HOLLISTER 2106	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
HOLLYWOOD 0401413432	HOLLYWOOD 0401	2.159275145		Alameda	Tier 2	FALSE	TRUE	FALSE
HOLLYWOOD 0401811742	HOLLYWOOD 0401	0.6230186		Alameda	Tier 2	FALSE	TRUE	TRUE
HOLLYWOOD 0401CB	HOLLYWOOD 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 11011006	HONCUT 1101	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
HONCUT 11011038	HONCUT 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 11011956	HONCUT 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 11012598	HONCUT 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 110137322	HONCUT 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 110137324	HONCUT 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 1101424030	HONCUT 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 11015013	HONCUT 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 11015053	HONCUT 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 11015581	HONCUT 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 110186530	HONCUT 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 110197092	HONCUT 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 1101CB	HONCUT 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 11021380	HONCUT 1102	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 11021702	HONCUT 1102	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 1102301886	HONCUT 1102	2.306811029		Yuba	Tier 2	TRUE	TRUE	FALSE
HONCUT 1102478754	HONCUT 1102	0		Yuba	Non-HFTD	TRUE	TRUE	FALSE
HONCUT 110255206	HONCUT 1102	0.25934357		Yuba	Tier 2	TRUE	TRUE	TRUE
HONCUT 11026130	HONCUT 1102	0		Yuba	Non-HFTD	TRUE	TRUE	FALSE
HONCUT 11027380	HONCUT 1102	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 110275350	HONCUT 1102	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 110294298	HONCUT 1102	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
HONCUT 1102976552	HONCUT 1102	0		Yuba	Non-HFTD	TRUE	TRUE	FALSE
HONCUT 1102CB	HONCUT 1102	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
HOOPA 11013174	HOOPA 1101	17.54325381		Humboldt	Tier 2	FALSE	TRUE	TRUE
HOOPA 11013290	HOOPA 1101	13.58053777		Humboldt	Tier 2	FALSE	TRUE	FALSE
HOOPA 11013304	HOOPA 1101	16.67474927		Humboldt	Tier 2	FALSE	TRUE	TRUE
HOOPA 110137202	HOOPA 1101	24.15638084		Humboldt	Tier 2	TRUE	TRUE	FALSE
HOOPA 1101405280	HOOPA 1101	21.13131084		Humboldt	Tier 3	FALSE	TRUE	TRUE
HOOPA 1101561116	HOOPA 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HOOPA 110182542	HOOPA 1101	10.95640618		Humboldt	Tier 2	FALSE	TRUE	TRUE
HOOPA 110193038	HOOPA 1101	0.992330283		Humboldt	Tier 3	FALSE	TRUE	TRUE
HOOPA 1101CB	HOOPA 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HOPLAND 11011100	HOPLAND 1101	3.290749273		Mendocino	Tier 2	FALSE	TRUE	FALSE
HOPLAND 1101154790	HOPLAND 1101	6.334605972		Mendocino	Tier 2	TRUE	TRUE	TRUE
HOPLAND 11014626	HOPLAND 1101	25.51919857		Mendocino	Tier 2	FALSE	TRUE	TRUE
HOPLAND 1101558	HOPLAND 1101	1.31267299		Mendocino	Tier 2	FALSE	TRUE	TRUE
HOPLAND 1101768	HOPLAND 1101	16.31321075		Mendocino	Tier 2	FALSE	TRUE	TRUE
HOPLAND 110180620	HOPLAND 1101	0.901710667		Mendocino	Tier 2	FALSE	TRUE	TRUE
HOPLAND 1101865263	HOPLAND 1101	5.626849928		Mendocino	Tier 2	FALSE	TRUE	TRUE
HOPLAND 110194006	HOPLAND 1101	12.39299418		Mendocino	Tier 2	FALSE	TRUE	TRUE
HOPLAND 1101960	HOPLAND 1101	9.522235743		Mendocino	Tier 2	FALSE	TRUE	TRUE
HOPLAND 1101CB	HOPLAND 1101	0.375922911		Mendocino	Tier 2	TRUE	TRUE	TRUE
HORSESHOE 11011682	HORSESHOE 1101	0.425957768		Placer	Tier 2	FALSE	TRUE	TRUE
HORSESHOE 11012714	HORSESHOE 1101	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
HORSESHOE 1101416226	HORSESHOE 1101	0.100224151		Placer	Tier 2	FALSE	TRUE	FALSE
HORSESHOE 110150140	HORSESHOE 1101	3.664459779		Placer	Tier 2	FALSE	TRUE	TRUE
HORSESHOE 110151538	HORSESHOE 1101	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
HORSESHOE 1101603250	HORSESHOE 1101	0.567461568		Placer	Tier 2	FALSE	TRUE	TRUE
HORSESHOE 1101CB	HORSESHOE 1101	0.170529974		Placer	Tier 2	FALSE	TRUE	TRUE
HORSESHOE 110250020	HORSESHOE 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
HORSESHOE 110250022	HORSESHOE 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
HORSESHOE 110296830	HORSESHOE 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
HORSESHOE 1102CB	HORSESHOE 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
HORSESHOE 1103CB	HORSESHOE 1103	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
HORSESHOE 110450142	HORSESHOE 1104	1.974159796		Placer	Tier 2	FALSE	TRUE	TRUE
HORSESHOE 110451536	HORSESHOE 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
HORSESHOE 1104CB	HORSESHOE 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
HORSESHOE 1105CB	HORSESHOE 1105	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
HORSESHOE 11061680	HORSESHOE 1106	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
HORSESHOE 11061826	HORSESHOE 1106	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
HORSESHOE 1106CB	HORSESHOE 1106	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
HUMBOLDT BAY 1101898396	HUMBOLDT BAY 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HUMBOLDT BAY 1101CB	HUMBOLDT BAY 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HUMBOLDT BAY 1102104220	HUMBOLDT BAY 1102	0.69259026		Humboldt	Tier 2	FALSE	TRUE	TRUE
HUMBOLDT BAY 1102309413	HUMBOLDT BAY 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HUMBOLDT BAY 110242066	HUMBOLDT BAY 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HUMBOLDT BAY 11024714	HUMBOLDT BAY 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HUMBOLDT BAY 11024724	HUMBOLDT BAY 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HUMBOLDT BAY 1102741980	HUMBOLDT BAY 1102	5.635228422		Humboldt	Tier 2	FALSE	TRUE	FALSE
HUMBOLDT BAY 11027598	HUMBOLDT BAY 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HUMBOLDT BAY 11027600	HUMBOLDT BAY 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HUMBOLDT BAY 1102CB	HUMBOLDT BAY 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 11016675	HUNTERS POINT (P) 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 110168026	HUNTERS POINT (P) 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 1101CB	HUNTERS POINT (P) 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 110212301	HUNTERS POINT (P) 1102	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
HUNTERS POINT (P) 110276684	HUNTERS POINT (P) 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 1102CB	HUNTERS POINT (P) 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 110339072	HUNTERS POINT (P) 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 110341994	HUNTERS POINT (P) 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 110398158	HUNTERS POINT (P) 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 1103CB	HUNTERS POINT (P) 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 1104611150	HUNTERS POINT (P) 1104	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 1104CB	HUNTERS POINT (P) 1104	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 110513303	HUNTERS POINT (P) 1105	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
HUNTERS POINT (P) 1105875780	HUNTERS POINT (P) 1105	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
HUNTERS POINT (P) 1105CB	HUNTERS POINT (P) 1105	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 110612531	HUNTERS POINT (P) 1106	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 1106CB	HUNTERS POINT (P) 1106	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 110775148	HUNTERS POINT (P) 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 110790058	HUNTERS POINT (P) 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 1107CB	HUNTERS POINT (P) 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 110810569	HUNTERS POINT (P) 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 1108993640	HUNTERS POINT (P) 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 1108CB	HUNTERS POINT (P) 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 1109614838	HUNTERS POINT (P) 1109	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HUNTERS POINT (P) 1109CB	HUNTERS POINT (P) 1109	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
HURON 110697762	HURON 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HURON 1106CB	HURON 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HURON 1107CB	HURON 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HURON 1108739538	HURON 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HURON 1108CB	HURON 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HURON 1109CB	HURON 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HURON 111242930	HURON 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HURON 1112961910	HURON 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HURON 11129820	HURON 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HURON 1112CB	HURON 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HURON 111637370	HURON 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HURON 111675368	HURON 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HURON 11169300	HURON 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
HURON 1116CB	HURON 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
IGNACIO 11011264	IGNACIO 1101	1.818584533		Marin	Tier 3	FALSE	TRUE	TRUE
IGNACIO 11011300	IGNACIO 1101	2.521060402		Marin	Tier 3	FALSE	TRUE	TRUE
IGNACIO 11011779	IGNACIO 1101	0.325198702		Marin	Tier 3	FALSE	TRUE	TRUE
IGNACIO 1101CB	IGNACIO 1101	1.561833851		Marin	Tier 2	FALSE	TRUE	TRUE
IGNACIO 11021240	IGNACIO 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
IGNACIO 11021350	IGNACIO 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
IGNACIO 1102CB	IGNACIO 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
IGNACIO 11031068	IGNACIO 1103	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
IGNACIO 1103151462	IGNACIO 1103	0.144692247		Marin	Tier 2	FALSE	TRUE	FALSE
IGNACIO 1103CB	IGNACIO 1103	0.474939633		Marin	Tier 2	FALSE	TRUE	TRUE
IGNACIO 11041274	IGNACIO 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
IGNACIO 11041290	IGNACIO 1104	3.598035871		Marin	Tier 2	FALSE	TRUE	TRUE
IGNACIO 1104316	IGNACIO 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
IGNACIO 1104450582	IGNACIO 1104	2.728116171		Marin	Tier 2	FALSE	TRUE	FALSE
IGNACIO 1104469764	IGNACIO 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
IGNACIO 1104CB	IGNACIO 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
IGNACIO 11051943	IGNACIO 1105	1.235011288		Marin	Tier 2	FALSE	TRUE	TRUE
IGNACIO 1105318	IGNACIO 1105	1.56702142		Marin	Tier 2	FALSE	TRUE	TRUE
IGNACIO 1105490728	IGNACIO 1105	0.493508685		Marin	Tier 2	FALSE	TRUE	FALSE
IGNACIO 1105683542	IGNACIO 1105	0.090862271		Marin	Tier 2	FALSE	TRUE	FALSE
IGNACIO 1105775176	IGNACIO 1105	0.414705798		Marin	Tier 2	FALSE	TRUE	TRUE
IGNACIO 1105784032	IGNACIO 1105	0.497726541		Marin	Tier 2	FALSE	TRUE	FALSE
IGNACIO 110584764	IGNACIO 1105	0.235309496		Marin	Tier 2	FALSE	TRUE	TRUE
IGNACIO 1105908	IGNACIO 1105	0.215258213		Marin	Tier 2	TRUE	TRUE	TRUE
IGNACIO 1105CB	IGNACIO 1105	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
INDIAN FLAT 11045456	INDIAN FLAT 1104	6.050526773		Mariposa	Tier 2	TRUE	TRUE	TRUE
INDIAN FLAT 1104CB	INDIAN FLAT 1104	10.07488735		Mariposa	Tier 2	FALSE	TRUE	TRUE
INDUSTRIAL ACRES 0411CB	INDUSTRIAL ACRES 0411	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
INDUSTRIAL ACRES 041249158	INDUSTRIAL ACRES 0412	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
INDUSTRIAL ACRES 0412CB	INDUSTRIAL ACRES 0412	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
INDUSTRIAL ACRES 0413CB	INDUSTRIAL ACRES 0413	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
INDUSTRIAL ACRES 0415CB	INDUSTRIAL ACRES 0415	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
IONE 110112236	IONE 1101	0		Amador	Non-HFTD	FALSE	FALSE	FALSE
IONE 110113446	IONE 1101	0		Amador	Non-HFTD	FALSE	FALSE	FALSE
IONE 1101CB	IONE 1101	1.419475841		Amador	Tier 2	FALSE	TRUE	TRUE
IONE 1101L3141	IONE 1101	13.47437082		Amador	Tier 2	FALSE	TRUE	FALSE
JACINTO 11012062	JACINTO 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
JACINTO 11012460	JACINTO 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
JACINTO 11012608	JACINTO 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
JACINTO 110163962	JACINTO 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
JACINTO 1101662526	JACINTO 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
JACINTO 110194868	JACINTO 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
JACINTO 1101CB	JACINTO 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
JACINTO 11022606	JACINTO 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
JACINTO 110245248	JACINTO 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
JACINTO 110247800	JACINTO 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
JACINTO 110285076	JACINTO 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
JACINTO 110287210	JACINTO 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
JACINTO 1102CB	JACINTO 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
JACOBS CORNER 110137362	JACOBS CORNER 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
JACOBS CORNER 11018230	JACOBS CORNER 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
JACOBS CORNER 11018520	JACOBS CORNER 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
JACOBS CORNER 1101CB	JACOBS CORNER 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
JACOBS CORNER 1102805158	JACOBS CORNER 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
JACOBS CORNER 11028160	JACOBS CORNER 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
JACOBS CORNER 1102CB	JACOBS CORNER 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
JAMESON 1101CB	JAMESON 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
JAMESON 110227210	JAMESON 1102	0.114671915		Solano	Tier 2	FALSE	TRUE	TRUE
JAMESON 110265516	JAMESON 1102	7.368591685		Solano	Tier 2	FALSE	TRUE	TRUE
JAMESON 1102865502	JAMESON 1102	0.401127308		Solano	Tier 2	FALSE	TRUE	TRUE
JAMESON 11028842	JAMESON 1102	0.118202061		Solano	Tier 2	FALSE	TRUE	TRUE
JAMESON 1102CB	JAMESON 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
JAMESON 1103118944	JAMESON 1103	2.188054392		Solano	Tier 2	FALSE	TRUE	FALSE
JAMESON 1103CB	JAMESON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
JAMESON 1104CB	JAMESON 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
JAMESON 110513392	JAMESON 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
JAMESON 1105371694	JAMESON 1105	0.023370389		Solano	Tier 2	FALSE	TRUE	TRUE
JAMESON 1105466348	JAMESON 1105	3.637844808		Solano	Tier 2	FALSE	TRUE	TRUE
JAMESON 1105512616	JAMESON 1105	3.451587269		Solano	Tier 2	TRUE	TRUE	TRUE
JAMESON 110560052	JAMESON 1105	6.851957904		Solano	Tier 2	TRUE	TRUE	TRUE
JAMESON 11057652	JAMESON 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
JAMESON 11057792	JAMESON 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
JAMESON 1105913400	JAMESON 1105	0.708737753		Solano	Tier 2	FALSE	TRUE	FALSE
JAMESON 11059472	JAMESON 1105	2.187574943		Solano	Tier 2	FALSE	TRUE	TRUE
JAMESON 1105CB	JAMESON 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
JANES CREEK 11011184	JANES CREEK 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
JANES CREEK 110141990	JANES CREEK 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
JANES CREEK 11017702	JANES CREEK 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
JANES CREEK 110191072	JANES CREEK 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
JANES CREEK 1101CB	JANES CREEK 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
JANES CREEK 1102CB	JANES CREEK 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
JANES CREEK 11031012	JANES CREEK 1103	0		Humboldt	Non-HFTD	TRUE	TRUE	FALSE
JANES CREEK 1103136680	JANES CREEK 1103	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
JANES CREEK 11037588	JANES CREEK 1103	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
JANES CREEK 1103CB	JANES CREEK 1103	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
JANES CREEK 11044844	JANES CREEK 1104	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
JANES CREEK 1104CB	JANES CREEK 1104	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1101467034	JARVIS 1101	0.58439		Alameda	Tier 2	FALSE	TRUE	TRUE
JARVIS 1101CB	JARVIS 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 11039057	JARVIS 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1103CB	JARVIS 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1103MR226	JARVIS 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1103MR245	JARVIS 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1103MR611	JARVIS 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1104CB	JARVIS 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1104MR244	JARVIS 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1105CB	JARVIS 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1105MR474	JARVIS 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 110662269	JARVIS 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1106CB	JARVIS 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1106MR687	JARVIS 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1107CB	JARVIS 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1108289662	JARVIS 1108	0.231292733		Alameda	Tier 2	FALSE	TRUE	TRUE
JARVIS 1108767280	JARVIS 1108	0.464343647		Alameda	Tier 2	FALSE	TRUE	TRUE
JARVIS 1108CB	JARVIS 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1108MR366	JARVIS 1108	0.00611901		Alameda	Tier 2	FALSE	TRUE	TRUE
JARVIS 1108MR367	JARVIS 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1109CB	JARVIS 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1110CB	JARVIS 1110	0.724519381		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1111306824	JARVIS 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1111907698	JARVIS 1111	1.829371933		Alameda	Tier 3	FALSE	TRUE	TRUE
JARVIS 1111CB	JARVIS 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1111MR120	JARVIS 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1111MR121	JARVIS 1111	0.468780436		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1111MR122	JARVIS 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1111MR132	JARVIS 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1112CB	JARVIS 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1112MR238	JARVIS 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1112MR490	JARVIS 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JARVIS 1112MR565	JARVIS 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
JERSEY ISLAND 0401CB	JERSEY ISLAND 0401	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
JESSUP 11011496	JESSUP 1101	16.45807722		Shasta	Tier 3	FALSE	TRUE	TRUE
JESSUP 1101271314	JESSUP 1101	1.209719496		Shasta	Tier 2	TRUE	TRUE	TRUE
JESSUP 11012839	JESSUP 1101	1.495779201		Shasta	Tier 2	FALSE	TRUE	TRUE
JESSUP 11013383	JESSUP 1101	1.287389326		Shasta	Tier 2	FALSE	TRUE	TRUE
JESSUP 110141356	JESSUP 1101	32.28961191		Shasta	Tier 2	TRUE	TRUE	TRUE
JESSUP 1101509264	JESSUP 1101	3.791424813		Shasta	Tier 2	FALSE	TRUE	TRUE
JESSUP 11019002	JESSUP 1101	0.762285828		Shasta	Tier 2	FALSE	TRUE	TRUE
JESSUP 110194468	JESSUP 1101	1.713834962		Shasta	Tier 2	FALSE	TRUE	FALSE
JESSUP 1101CB	JESSUP 1101	0.025590802		Shasta	Tier 2	FALSE	TRUE	TRUE
JESSUP 11021314	JESSUP 1102	5.00480291		Shasta	Tier 2	FALSE	TRUE	TRUE
JESSUP 11021550	JESSUP 1102	23.52489173		Shasta	Tier 2	TRUE	TRUE	TRUE
JESSUP 1102158468	JESSUP 1102	0.592103289		Shasta	Tier 2	FALSE	TRUE	TRUE
JESSUP 110238330	JESSUP 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
JESSUP 110269928	JESSUP 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
JESSUP 110276068	JESSUP 1102	16.70553714		Shasta	Tier 2	TRUE	TRUE	TRUE
JESSUP 110296554	JESSUP 1102	7.063103561		Shasta	Tier 2	FALSE	TRUE	TRUE
JESSUP 1102CB	JESSUP 1102	0.448216199		Shasta	Tier 2	TRUE	TRUE	TRUE
JESSUP 11031518	JESSUP 1103	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
JESSUP 11031540	JESSUP 1103	0.014383028		Shasta	Tier 2	FALSE	TRUE	TRUE
JESSUP 110338864	JESSUP 1103	1.565909573		Shasta	Tier 2	FALSE	TRUE	TRUE
JESSUP 1103728460	JESSUP 1103	0.609096665		Shasta	Tier 2	FALSE	TRUE	TRUE
JESSUP 1103770356	JESSUP 1103	1.733913588		Shasta	Tier 2	FALSE	TRUE	TRUE
JESSUP 11039281	JESSUP 1103	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
JESSUP 1103CB	JESSUP 1103	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
JOLON 11027002	JOLON 1102	8.228438288		Monterey	Tier 2	FALSE	TRUE	TRUE
JOLON 11027004	JOLON 1102	4.702066149		Monterey	Tier 2	FALSE	TRUE	TRUE
JOLON 11027040	JOLON 1102	19.70563138		Monterey	Tier 2	FALSE	TRUE	TRUE
JOLON 11027068	JOLON 1102	3.75088703		Monterey	Tier 2	FALSE	TRUE	TRUE
JOLON 11027070	JOLON 1102	6.030978426		Monterey	Tier 2	FALSE	TRUE	TRUE
JOLON 1102CB	JOLON 1102	23.07758039		Monterey	Tier 2	FALSE	TRUE	TRUE
JOLON 1103CB	JOLON 1103	12.51035932		Monterey	Tier 2	FALSE	TRUE	TRUE
JUDAH 0401CB	JUDAH 0401	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
JUDAH 0402CB	JUDAH 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
KANAKA 110165606	KANAKA 1101	12.70135788		Butte	Tier 3	TRUE	TRUE	TRUE
KANAKA 1101733624	KANAKA 1101	7.918523992		Butte	Tier 3	TRUE	TRUE	TRUE
KANAKA 110183288	KANAKA 1101	17.30819339		Butte	Tier 3	TRUE	TRUE	TRUE
KANAKA 1101859138	KANAKA 1101	6.198785558		Butte	Tier 3	TRUE	TRUE	TRUE
KANAKA 1101CB	KANAKA 1101	28.29328823		Butte	Tier 3	TRUE	TRUE	TRUE
KEARNEY 110464226	KEARNEY 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 110477226	KEARNEY 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 110493554	KEARNEY 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 110497774	KEARNEY 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 1104CB	KEARNEY 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 1104D1827	KEARNEY 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 1104D4939	KEARNEY 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 1106249259	KEARNEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 1106481832	KEARNEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 1106563038	KEARNEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 1106CB	KEARNEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 1110251800	KEARNEY 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 111049534	KEARNEY 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 111079554	KEARNEY 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 111086202	KEARNEY 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 1110CB	KEARNEY 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 1113CB	KEARNEY 1113	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 1114188548	KEARNEY 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KEARNEY 111437294	KEARNEY 1114	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
KEARNEY 1114CB	KEARNEY 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERCKHOFF 1101CB	KERCKHOFF 1101	16.76535533		Fresno	Tier 2	FALSE	TRUE	TRUE
KERCKHOFF 1101R308	KERCKHOFF 1101	3.752277806		Fresno	Tier 2	FALSE	TRUE	TRUE
KERCKHOFF 1101R353	KERCKHOFF 1101	13.73793533		Madera	Tier 2	FALSE	TRUE	FALSE
KERMAN 110182402	KERMAN 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 110194216	KERMAN 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 110197426	KERMAN 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1101CB	KERMAN 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1101R1630	KERMAN 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1101R2875	KERMAN 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1101R3040	KERMAN 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1101R42	KERMAN 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 110263968	KERMAN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 110286102	KERMAN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1102CB	KERMAN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1102D4115	KERMAN 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 110333316	KERMAN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 110337770	KERMAN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 110348784	KERMAN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1103671860	KERMAN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1103CB	KERMAN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1103R1570	KERMAN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1103R1580	KERMAN 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 110447386	KERMAN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 110456116	KERMAN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1104928231	KERMAN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1104CB	KERMAN 1104	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
KERMAN 1104R1173	KERMAN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 110649602	KERMAN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 110649702	KERMAN 1106	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
KERMAN 1106CB	KERMAN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1106R421	KERMAN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 110863970	KERMAN 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1108CB	KERMAN 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1108R1690	KERMAN 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERMAN 1108R2686	KERMAN 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 110313885	KERN OIL 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 11035247	KERN OIL 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 1103CB	KERN OIL 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 11043843	KERN OIL 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 11044479	KERN OIL 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 110476778	KERN OIL 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 1104CB	KERN OIL 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 11062794	KERN OIL 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 11063301	KERN OIL 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 1106397902	KERN OIL 1106	0.452300756		Kern	Tier 2	FALSE	TRUE	FALSE
KERN OIL 1106412184	KERN OIL 1106	0.856199512		Kern	Tier 2	FALSE	TRUE	FALSE
KERN OIL 110646960	KERN OIL 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 1106CB	KERN OIL 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 1107CB	KERN OIL 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 1108786062	KERN OIL 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 1108CB	KERN OIL 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 1109CB	KERN OIL 1109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 11102852	KERN OIL 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 11104083	KERN OIL 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 11108628	KERN OIL 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 1110CB	KERN OIL 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 1114652106	KERN OIL 1114	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 1114CB	KERN OIL 1114	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 11164513	KERN OIL 1116	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN OIL 1116CB	KERN OIL 1116	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN POWER 210138356	KERN POWER 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN POWER 2101CB	KERN POWER 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN POWER 2102CB	KERN POWER 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN POWER 21032487	KERN POWER 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN POWER 2103CB	KERN POWER 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN POWER 21044281	KERN POWER 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
KERN POWER 2104CB	KERN POWER 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN POWER 21052256	KERN POWER 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN POWER 21054930	KERN POWER 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN POWER 21054931	KERN POWER 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN POWER 21054959	KERN POWER 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN POWER 210565342	KERN POWER 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN POWER 210594407	KERN POWER 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KERN POWER 2105CB	KERN POWER 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
KESWICK 11011586	KESWICK 1101	4.809352911		Shasta	Tier 3	TRUE	TRUE	TRUE
KESWICK 11011588	KESWICK 1101	8.5792991		Shasta	Tier 3	TRUE	TRUE	TRUE
KESWICK 11011590	KESWICK 1101	6.297267159		Shasta	Tier 3	TRUE	TRUE	TRUE
KESWICK 1101417066	KESWICK 1101	2.75837346		Shasta	Tier 3	TRUE	TRUE	TRUE
KESWICK 110148480	KESWICK 1101	10.52039723		Shasta	Tier 3	TRUE	TRUE	TRUE
KESWICK 11019712	KESWICK 1101	18.54038353		Shasta	Tier 3	TRUE	TRUE	TRUE
KESWICK 1101CB	KESWICK 1101	0.016570912		Shasta	Tier 3	FALSE	TRUE	TRUE
KETTLEMAN HILLS 110149656	KETTLEMAN HILLS 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
KETTLEMAN HILLS 11019180	KETTLEMAN HILLS 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
KETTLEMAN HILLS 1101CB	KETTLEMAN HILLS 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
KETTLEMAN HILLS 2104358094	KETTLEMAN HILLS 2104	1.357603998		Fresno	Non-HFTD	TRUE	TRUE	TRUE
KETTLEMAN HILLS 210464373	KETTLEMAN HILLS 2104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
KETTLEMAN HILLS 21049020	KETTLEMAN HILLS 2104	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
KETTLEMAN HILLS 2104CB	KETTLEMAN HILLS 2104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1101CB	KING CITY 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 11027024	KING CITY 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1102728782	KING CITY 1102	0.639494393		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1102CB	KING CITY 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1103139682	KING CITY 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 11037038	KING CITY 1103	17.74729529		Monterey	Tier 2	FALSE	TRUE	TRUE
KING CITY 1103723816	KING CITY 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1103CB	KING CITY 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 11047092	KING CITY 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1104CB	KING CITY 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 11057078	KING CITY 1105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1105CB	KING CITY 1105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1106202402	KING CITY 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1106500	KING CITY 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1106666728	KING CITY 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 11067032	KING CITY 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1106958502	KING CITY 1106	7.259061949		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 110699446	KING CITY 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1106CB	KING CITY 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1107CB	KING CITY 1107	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KING CITY 1108CB	KING CITY 1108	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 110279838	KINGSBURG 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 110281042	KINGSBURG 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1102CB	KINGSBURG 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 11086820	KINGSBURG 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1108913944	KINGSBURG 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1108923080	KINGSBURG 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1108CB	KINGSBURG 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1110430494	KINGSBURG 1110	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1110778342	KINGSBURG 1110	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1110828488	KINGSBURG 1110	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1110CB	KINGSBURG 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 111139720	KINGSBURG 1111	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1111433740	KINGSBURG 1111	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1111552366	KINGSBURG 1111	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 11116170	KINGSBURG 1111	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 11117090	KINGSBURG 1111	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1111803288	KINGSBURG 1111	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1111941436	KINGSBURG 1111	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1111CB	KINGSBURG 1111	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 111255052	KINGSBURG 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 111284417	KINGSBURG 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1112CB	KINGSBURG 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1113235934	KINGSBURG 1113	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1113312897	KINGSBURG 1113	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 11136390	KINGSBURG 1113	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1113891944	KINGSBURG 1113	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1113CB	KINGSBURG 1113	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 11145080	KINGSBURG 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 11146760	KINGSBURG 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 111468916	KINGSBURG 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1114CB	KINGSBURG 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 111629517	KINGSBURG 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1116377589	KINGSBURG 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 11166000	KINGSBURG 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1116605430	KINGSBURG 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 11166120	KINGSBURG 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 11166340	KINGSBURG 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 111677276	KINGSBURG 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1116794408	KINGSBURG 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KINGSBURG 1116CB	KINGSBURG 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 2103850957	KIRKER 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 2103CB	KIRKER 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 2103P524R	KIRKER 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 210475648	KIRKER 2104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 2104CB	KIRKER 2104	4.014884003		Contra Costa	Tier 2	FALSE	TRUE	TRUE
KIRKER 210559847	KIRKER 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 2105A536R	KIRKER 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 2105CB	KIRKER 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 210618742	KIRKER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 210639188	KIRKER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 21065792	KIRKER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 210688828	KIRKER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 210695832	KIRKER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 2106CB	KIRKER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 2106P525R	KIRKER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 210719592	KIRKER 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 21076332	KIRKER 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 2107CB	KIRKER 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
KIRKER 210849190	KIRKER 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 210885526	KIRKER 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 2108CB	KIRKER 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 210921652	KIRKER 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KIRKER 2109CB	KIRKER 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
KNIGHTS LANDING 110165736	KNIGHTS LANDING 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
KNIGHTS LANDING 11018952	KNIGHTS LANDING 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
KNIGHTS LANDING 11018962	KNIGHTS LANDING 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
KNIGHTS LANDING 1101CB	KNIGHTS LANDING 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
KNIGHTS LANDING 1102106342	KNIGHTS LANDING 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
KNIGHTS LANDING 110236810	KNIGHTS LANDING 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
KNIGHTS LANDING 11026872	KNIGHTS LANDING 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
KNIGHTS LANDING 11027752	KNIGHTS LANDING 1102	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
KNIGHTS LANDING 11028432	KNIGHTS LANDING 1102	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
KNIGHTS LANDING 11029502	KNIGHTS LANDING 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
KNIGHTS LANDING 1102CB	KNIGHTS LANDING 1102	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
KONOCTI 11022293	KONOCTI 1102	1.73043363		Lake	Tier 2	FALSE	TRUE	TRUE
KONOCTI 1102354890	KONOCTI 1102	6.914304872		Lake	Tier 2	FALSE	TRUE	TRUE
KONOCTI 1102410004	KONOCTI 1102	3.281585201		Lake	Tier 2	FALSE	TRUE	FALSE
KONOCTI 11024300	KONOCTI 1102	26.18301304		Lake	Tier 3	FALSE	TRUE	TRUE
KONOCTI 1102532	KONOCTI 1102	7.483462036		Lake	Tier 3	TRUE	TRUE	TRUE
KONOCTI 110264664	KONOCTI 1102	25.01271704		Lake	Tier 3	FALSE	TRUE	TRUE
KONOCTI 1102716	KONOCTI 1102	13.05245857		Lake	Tier 3	FALSE	TRUE	TRUE
KONOCTI 110275382	KONOCTI 1102	22.50379162		Lake	Tier 3	TRUE	TRUE	TRUE
KONOCTI 1102806668	KONOCTI 1102	2.085252646		Lake	Tier 3	FALSE	TRUE	TRUE
KONOCTI 1102948	KONOCTI 1102	6.216141446		Lake	Tier 2	FALSE	TRUE	TRUE
KONOCTI 1102965078	KONOCTI 1102	5.330812519		Lake	Tier 2	FALSE	TRUE	TRUE
KONOCTI 1102985276	KONOCTI 1102	0.104155384		Lake	Tier 2	FALSE	TRUE	TRUE
KONOCTI 1102CB	KONOCTI 1102	2.924685063		Lake	Tier 3	FALSE	TRUE	TRUE
KONOCTI 11081278	KONOCTI 1108	4.941083428		Lake	Tier 2	FALSE	TRUE	TRUE
KONOCTI 11084037	KONOCTI 1108	0.98089613		Lake	Tier 2	FALSE	TRUE	TRUE
KONOCTI 11084039	KONOCTI 1108	1.804085747		Lake	Tier 2	FALSE	TRUE	TRUE
KONOCTI 11084041	KONOCTI 1108	1.219737988		Lake	Tier 2	FALSE	TRUE	TRUE
KONOCTI 1108430588	KONOCTI 1108	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
KONOCTI 1108950	KONOCTI 1108	5.667475482		Lake	Tier 2	FALSE	TRUE	TRUE
KONOCTI 1108CB	KONOCTI 1108	5.789544612		Lake	Tier 2	FALSE	TRUE	TRUE
LAKEVIEW 11021009	LAKEVIEW 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAKEVIEW 11023548	LAKEVIEW 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAKEVIEW 11023776	LAKEVIEW 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAKEVIEW 11029360	LAKEVIEW 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAKEVIEW 1102CB	LAKEVIEW 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAKEVIEW 11034488	LAKEVIEW 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAKEVIEW 1103CB	LAKEVIEW 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAKEVIEW 11061632	LAKEVIEW 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAKEVIEW 11064796	LAKEVIEW 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAKEVIEW 1106CB	LAKEVIEW 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAKEVIEW 11074490	LAKEVIEW 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAKEVIEW 1107CB	LAKEVIEW 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAKEVILLE 1101108774	LAKEVILLE 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
LAKEVILLE 1101266	LAKEVILLE 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
LAKEVILLE 1101CB	LAKEVILLE 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
LAKEVILLE 1102272	LAKEVILLE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
LAKEVILLE 1102280	LAKEVILLE 1102	1.629043643		Sonoma	Tier 2	FALSE	TRUE	TRUE
LAKEVILLE 1102347280	LAKEVILLE 1102	7.333971885		Sonoma	Tier 2	FALSE	TRUE	TRUE
LAKEVILLE 1102367100	LAKEVILLE 1102	0.102331714		Sonoma	Tier 2	FALSE	TRUE	TRUE
LAKEVILLE 1102530	LAKEVILLE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
LAKEVILLE 110287432	LAKEVILLE 1102	9.063432507		Sonoma	Tier 3	FALSE	TRUE	TRUE
LAKEVILLE 1102CB	LAKEVILLE 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
LAKEVILLE 1105CB	LAKEVILLE 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 1101CB	LAKEWOOD 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 1102CB	LAKEWOOD 1102	0.096993646		Contra Costa	Tier 2	FALSE	TRUE	TRUE
LAKEWOOD 1103149504	LAKEWOOD 1103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 1103CB	LAKEWOOD 1103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 110483796	LAKEWOOD 1104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 110492910	LAKEWOOD 1104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 1104CB	LAKEWOOD 1104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 1104W526R	LAKEWOOD 1104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 1104W528R	LAKEWOOD 1104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 210738404	LAKEWOOD 2107	1.932597626		Contra Costa	Tier 2	FALSE	TRUE	TRUE
LAKEWOOD 2107396264	LAKEWOOD 2107	4.654899433		Contra Costa	Tier 2	FALSE	TRUE	TRUE
LAKEWOOD 2107474346	LAKEWOOD 2107	0.873671675		Contra Costa	Tier 2	TRUE	TRUE	TRUE
LAKEWOOD 210757670	LAKEWOOD 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 210769586	LAKEWOOD 2107	0.310146919		Contra Costa	Tier 2	FALSE	TRUE	TRUE
LAKEWOOD 2107CB	LAKEWOOD 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2107GY401/2	LAKEWOOD 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2108CB	LAKEWOOD 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2109432198	LAKEWOOD 2109	0.424358729		Contra Costa	Tier 3	FALSE	TRUE	TRUE
LAKEWOOD 210964992	LAKEWOOD 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2109CB	LAKEWOOD 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2110139484	LAKEWOOD 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 211021345	LAKEWOOD 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 211082806	LAKEWOOD 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 211090650	LAKEWOOD 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 211093966	LAKEWOOD 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 211094814	LAKEWOOD 2110	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
LAKEWOOD 2110CB	LAKEWOOD 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2110D578R	LAKEWOOD 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2110W577R	LAKEWOOD 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2111CB	LAKEWOOD 2111	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2112CB	LAKEWOOD 2112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2112W513R	LAKEWOOD 2112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2223289858	LAKEWOOD 2223	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2223920366	LAKEWOOD 2223	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2223982800	LAKEWOOD 2223	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2223CB	LAKEWOOD 2223	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 222454676	LAKEWOOD 2224	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2224568670	LAKEWOOD 2224	0.816946102		Contra Costa	Tier 3	FALSE	TRUE	TRUE
LAKEWOOD 222464093	LAKEWOOD 2224	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 222466408	LAKEWOOD 2224	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
LAKEWOOD 22247381	LAKEWOOD 2224	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 222475242	LAKEWOOD 2224	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
LAKEWOOD 2224CB	LAKEWOOD 2224	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2224ROBLES401	LAKEWOOD 2224	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2224W544R	LAKEWOOD 2224	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 222565266	LAKEWOOD 2225	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 22258748	LAKEWOOD 2225	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2225CB	LAKEWOOD 2225	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2226CB	LAKEWOOD 2226	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2226W505R	LAKEWOOD 2226	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2227CB	LAKEWOOD 2227	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LAKEWOOD 2227W503R	LAKEWOOD 2227	0.030745366		Contra Costa	Tier 3	FALSE	TRUE	TRUE
LAMMERS 1101932641	LAMMERS 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LAMMERS 1101CB	LAMMERS 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LAMMERS 1102CB	LAMMERS 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LAMMERS 110311806	LAMMERS 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LAMMERS 1103CB	LAMMERS 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LAMMERS 1105CB	LAMMERS 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LAMMERS 1106CB	LAMMERS 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LAMMERS 110714358	LAMMERS 1107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LAMMERS 1107CB	LAMMERS 1107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LAMMERS 1108854494	LAMMERS 1108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LAMMERS 1108CB	LAMMERS 1108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11021644	LAMONT 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 110217566	LAMONT 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11022862	LAMONT 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11024222	LAMONT 1102	3.122315576		Kern	Tier 2	FALSE	TRUE	TRUE
LAMONT 11024409	LAMONT 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 110280580	LAMONT 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11029785	LAMONT 1102	0.36276397		Kern	Tier 2	FALSE	TRUE	TRUE
LAMONT 1102CB	LAMONT 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 110316321	LAMONT 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11034088	LAMONT 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 110349134	LAMONT 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 110390940	LAMONT 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 1103CB	LAMONT 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11043855	LAMONT 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11044113	LAMONT 1104	1.430302868		Kern	Tier 2	FALSE	TRUE	TRUE
LAMONT 11044575	LAMONT 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 1104469262	LAMONT 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 1104966142	LAMONT 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 1104CB	LAMONT 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11052213	LAMONT 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11052840	LAMONT 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 1105CB	LAMONT 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 1106143302	LAMONT 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11064094	LAMONT 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11064784	LAMONT 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11069848	LAMONT 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 1106CB	LAMONT 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 110715043	LAMONT 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11071608	LAMONT 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11071913	LAMONT 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11071952	LAMONT 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11071988	LAMONT 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11072469	LAMONT 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 11079871	LAMONT 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LAMONT 1107CB	LAMONT 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 110734976	LARKIN (Y) 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1107907142	LARKIN (Y) 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1107CB	LARKIN (Y) 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1108CB	LARKIN (Y) 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1109CB	LARKIN (Y) 1109	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 111012459	LARKIN (Y) 1110	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1110CB	LARKIN (Y) 1110	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1111CB	LARKIN (Y) 1111	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1119645148	LARKIN (Y) 1119	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1119CB	LARKIN (Y) 1119	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 112032934	LARKIN (Y) 1120	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1120CB	LARKIN (Y) 1120	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1127338022	LARKIN (Y) 1127	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 112738696	LARKIN (Y) 1127	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1127439280	LARKIN (Y) 1127	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1127767462	LARKIN (Y) 1127	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1127971378	LARKIN (Y) 1127	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1127CB	LARKIN (Y) 1127	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1128CB	LARKIN (Y) 1128	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 113511309	LARKIN (Y) 1135	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 113584195	LARKIN (Y) 1135	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1135CB	LARKIN (Y) 1135	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 11366663	LARKIN (Y) 1136	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1136CB	LARKIN (Y) 1136	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1137CB	LARKIN (Y) 1137	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 11383527	LARKIN (Y) 1138	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1138CB	LARKIN (Y) 1138	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1140CB	LARKIN (Y) 1140	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LARKIN (Y) 1141CB	LARKIN (Y) 1141	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
LAS GALLINAS A 1103CB	LAS GALLINAS A 1103	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
LAS GALLINAS A 11041220	LAS GALLINAS A 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
LAS GALLINAS A 1104304	LAS GALLINAS A 1104	0.278618991		Marin	Tier 2	FALSE	TRUE	TRUE
LAS GALLINAS A 110436840	LAS GALLINAS A 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
LAS GALLINAS A 1104CB	LAS GALLINAS A 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
LAS GALLINAS A 11051218	LAS GALLINAS A 1105	0.04012592		Marin	Tier 2	FALSE	TRUE	TRUE
LAS GALLINAS A 1105126886	LAS GALLINAS A 1105	0.378226798		Marin	Tier 2	FALSE	TRUE	TRUE
LAS GALLINAS A 1105532	LAS GALLINAS A 1105	4.342498792		Marin	Tier 3	FALSE	TRUE	TRUE
LAS GALLINAS A 1105904	LAS GALLINAS A 1105	1.126637844		Marin	Tier 2	FALSE	TRUE	TRUE
LAS GALLINAS A 110599904	LAS GALLINAS A 1105	5.393533659		Marin	Tier 3	FALSE	TRUE	TRUE
LAS GALLINAS A 1105CB	LAS GALLINAS A 1105	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
LAS GALLINAS A 1106206332	LAS GALLINAS A 1106	0.151884693		Marin	Tier 2	FALSE	TRUE	TRUE
LAS GALLINAS A 1106228906	LAS GALLINAS A 1106	0.436501683		Marin	Tier 3	FALSE	TRUE	TRUE
LAS GALLINAS A 1106685656	LAS GALLINAS A 1106	0.516640884		Marin	Tier 3	FALSE	TRUE	TRUE
LAS GALLINAS A 1106685852	LAS GALLINAS A 1106	0.028954491		Marin	Tier 2	FALSE	TRUE	TRUE
LAS GALLINAS A 1106CB	LAS GALLINAS A 1106	0.046114193		Marin	Tier 2	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
LAS GALLINAS A 1107554	LAS GALLINAS A 1107	0.019876346		Marin	Tier 2	FALSE	TRUE	TRUE
LAS GALLINAS A 1107662	LAS GALLINAS A 1107	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
LAS GALLINAS A 1107980	LAS GALLINAS A 1107	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
LAS GALLINAS A 1107CB	LAS GALLINAS A 1107	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
LAS PALMAS 1101CB	LAS PALMAS 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2103CB	LAS POSITAS 2103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2103MR161	LAS POSITAS 2103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2104CB	LAS POSITAS 2104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2104MR188	LAS POSITAS 2104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 210572161	LAS POSITAS 2105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 210576660	LAS POSITAS 2105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2105775742	LAS POSITAS 2105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2105CB	LAS POSITAS 2105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2106CB	LAS POSITAS 2106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2106MR149	LAS POSITAS 2106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2106MR180	LAS POSITAS 2106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2107CB	LAS POSITAS 2107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2107MR184	LAS POSITAS 2107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2107MR199	LAS POSITAS 2107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2108631066	LAS POSITAS 2108	6.301046947		Alameda	Tier 2	FALSE	TRUE	TRUE
LAS POSITAS 2108794616	LAS POSITAS 2108	0.544090071		Alameda	Tier 2	FALSE	TRUE	TRUE
LAS POSITAS 2108CB	LAS POSITAS 2108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2108MR190	LAS POSITAS 2108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2109CB	LAS POSITAS 2109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2109MR310	LAS POSITAS 2109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2109MR419	LAS POSITAS 2109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2110CB	LAS POSITAS 2110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2110MR195	LAS POSITAS 2110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2110MR327	LAS POSITAS 2110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS POSITAS 2110MR356	LAS POSITAS 2110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LAS PULGAS 0401104588	LAS PULGAS 0401	0.345270576		San Mateo	Tier 2	FALSE	TRUE	FALSE
LAS PULGAS 0401544518	LAS PULGAS 0401	1.636121973		San Mateo	Tier 2	FALSE	TRUE	FALSE
LAS PULGAS 0401CB	LAS PULGAS 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
LAS PULGAS 0402CB	LAS PULGAS 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
LAS PULGAS 0403CB	LAS PULGAS 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
LAS PULGAS 040432524	LAS PULGAS 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
LAS PULGAS 0404CB	LAS PULGAS 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
LATHROP 0402CB	LATHROP 0402	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LAURELES 111110141	LAURELES 1111	2.86686749		Monterey	Tier 3	FALSE	TRUE	TRUE
LAURELES 11112020	LAURELES 1111	33.93249581		Monterey	Tier 3	TRUE	TRUE	TRUE
LAURELES 11112028	LAURELES 1111	8.682046397		Monterey	Tier 2	FALSE	TRUE	TRUE
LAURELES 1111239622	LAURELES 1111	2.634052955		Monterey	Tier 2	FALSE	TRUE	FALSE
LAURELES 1111432	LAURELES 1111	48.96896456		Monterey	Tier 2	TRUE	TRUE	TRUE
LAURELES 11116421	LAURELES 1111	1.727514215		Monterey	Tier 2	FALSE	TRUE	TRUE
LAURELES 11116617	LAURELES 1111	1.779699694		Monterey	Tier 2	FALSE	TRUE	TRUE
LAURELES 1111CB	LAURELES 1111	4.534944163		Monterey	Tier 2	FALSE	TRUE	TRUE
LAURELES 11122142	LAURELES 1112	0.055419099		Monterey	Tier 2	FALSE	TRUE	TRUE
LAURELES 11122768	LAURELES 1112	4.290157538		Monterey	Tier 2	FALSE	TRUE	TRUE
LAURELES 1112438	LAURELES 1112	11.32369044		Monterey	Tier 2	FALSE	TRUE	FALSE
LAURELES 1112543790	LAURELES 1112	1.674557779		Monterey	Tier 2	FALSE	TRUE	FALSE
LAURELES 1112562376	LAURELES 1112	7.845081241		Monterey	Tier 2	FALSE	TRUE	TRUE
LAURELES 1112CB	LAURELES 1112	0.062171453		Monterey	Tier 2	FALSE	TRUE	TRUE
LAWNDALE 0401CB	LAWNDALE 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
LAWNDALE 0402CB	LAWNDALE 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 1102CB	LAWRENCE 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 1103CB	LAWRENCE 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 110455186	LAWRENCE 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 1104CB	LAWRENCE 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 1105CB	LAWRENCE 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 1106CB	LAWRENCE 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 1107CB	LAWRENCE 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 1108CB	LAWRENCE 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 1109CB	LAWRENCE 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 1110CB	LAWRENCE 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 1111CB	LAWRENCE 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 111233105	LAWRENCE 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 1112CB	LAWRENCE 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 111360068	LAWRENCE 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAWRENCE 1113CB	LAWRENCE 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LAYTONVILLE 11011760	LAYTONVILLE 1101	12.59635308		Mendocino	Tier 2	FALSE	TRUE	TRUE
LAYTONVILLE 1101402	LAYTONVILLE 1101	22.88345284		Mendocino	Tier 2	FALSE	TRUE	TRUE
LAYTONVILLE 1101448108	LAYTONVILLE 1101	6.97948679		Mendocino	Tier 2	FALSE	TRUE	FALSE
LAYTONVILLE 1101518	LAYTONVILLE 1101	22.44042583		Mendocino	Tier 2	FALSE	TRUE	TRUE
LAYTONVILLE 110189606	LAYTONVILLE 1101	4.511041321		Mendocino	Tier 2	FALSE	TRUE	FALSE
LAYTONVILLE 1101CB	LAYTONVILLE 1101	5.782570465		Mendocino	Tier 2	FALSE	TRUE	TRUE
LAYTONVILLE 1102141962	LAYTONVILLE 1102	5.071134537		Mendocino	Tier 2	FALSE	TRUE	TRUE
LAYTONVILLE 11022502	LAYTONVILLE 1102	17.57903689		Mendocino	Tier 2	FALSE	TRUE	FALSE
LAYTONVILLE 110237586	LAYTONVILLE 1102	13.90302948		Mendocino	Tier 2	TRUE	TRUE	FALSE
LAYTONVILLE 1102500	LAYTONVILLE 1102	19.97388224		Mendocino	Tier 2	FALSE	TRUE	TRUE
LAYTONVILLE 1102538750	LAYTONVILLE 1102	9.3819467		Mendocino	Tier 3	FALSE	TRUE	FALSE
LAYTONVILLE 1102572	LAYTONVILLE 1102	15.83413543		Mendocino	Tier 2	FALSE	TRUE	FALSE
LAYTONVILLE 110264908	LAYTONVILLE 1102	3.359123034		Mendocino	Tier 2	FALSE	TRUE	TRUE
LAYTONVILLE 1102682	LAYTONVILLE 1102	14.98669883		Mendocino	Tier 2	FALSE	TRUE	FALSE
LAYTONVILLE 1102CB	LAYTONVILLE 1102	11.85143066		Mendocino	Tier 2	FALSE	TRUE	TRUE
LE GRAND 1104257152	LE GRAND 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 11045010	LE GRAND 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 11045050	LE GRAND 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 1104560074	LE GRAND 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 1104807088	LE GRAND 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 1104CB	LE GRAND 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 1104RUSE	LE GRAND 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 1106141672	LE GRAND 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 110634924	LE GRAND 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 1106761734	LE GRAND 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 1106790446	LE GRAND 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 1106CB	LE GRAND 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 11104600	LE GRAND 1110	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 11107120	LE GRAND 1110	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 11107130	LE GRAND 1110	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 11109630	LE GRAND 1110	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 1110CB	LE GRAND 1110	0		Merced	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
LE GRAND 111212000	LE GRAND 1112	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 111212020	LE GRAND 1112	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 11124510	LE GRAND 1112	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LE GRAND 1112CB	LE GRAND 1112	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 110153572	LEMOORE 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 1101546704	LEMOORE 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 1101719720	LEMOORE 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 1101746655	LEMOORE 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 11018010	LEMOORE 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 1101CB	LEMOORE 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 110275452	LEMOORE 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 11028290	LEMOORE 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 110288290	LEMOORE 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 1102CB	LEMOORE 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 110369392	LEMOORE 1103	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 1103CB	LEMOORE 1103	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 11048310	LEMOORE 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 11048650	LEMOORE 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 11048760	LEMOORE 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 1104CB	LEMOORE 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 1105671546	LEMOORE 1105	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 11058740	LEMOORE 1105	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 11058770	LEMOORE 1105	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LEMOORE 1105CB	LEMOORE 1105	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
LERDO 11101616	LERDO 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 1110CB	LERDO 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 1110CUS3530	LERDO 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 11111606	LERDO 1111	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 11112483	LERDO 1111	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 11113610	LERDO 1111	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 1111CB	LERDO 1111	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 11124323	LERDO 1112	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 11127348	LERDO 1112	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 1112CB	LERDO 1112	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 11131550	LERDO 1113	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 11133661	LERDO 1113	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 1113CB	LERDO 1113	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 1114CB	LERDO 1114	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 11153910	LERDO 1115	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 1115CB	LERDO 1115	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 1115CUS1066	LERDO 1115	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 1116781190	LERDO 1116	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 111689580	LERDO 1116	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LERDO 1116CB	LERDO 1116	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 11011398	LINCOLN 1101	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 1101210168	LINCOLN 1101	4.011411568		Placer	Tier 2	FALSE	TRUE	FALSE
LINCOLN 1101744292	LINCOLN 1101	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 1101860022	LINCOLN 1101	0.773420989		Placer	Tier 2	FALSE	TRUE	TRUE
LINCOLN 1101875554	LINCOLN 1101	5.677389441		Placer	Tier 2	FALSE	TRUE	TRUE
LINCOLN 110195756	LINCOLN 1101	5.96634096		Placer	Tier 2	FALSE	TRUE	TRUE
LINCOLN 1101CB	LINCOLN 1101	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 110251600	LINCOLN 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 110289506	LINCOLN 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 1102CB	LINCOLN 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 11042070	LINCOLN 1104	15.25070033		Placer	Tier 2	FALSE	TRUE	TRUE
LINCOLN 11042072	LINCOLN 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 11042306	LINCOLN 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 11042308	LINCOLN 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 1104275986	LINCOLN 1104	0.596335792		Placer	Tier 2	FALSE	TRUE	FALSE
LINCOLN 110451756	LINCOLN 1104	0.271137341		Placer	Tier 2	FALSE	TRUE	TRUE
LINCOLN 1104685276	LINCOLN 1104	5.345417625		Placer	Tier 2	FALSE	TRUE	TRUE
LINCOLN 1104693294	LINCOLN 1104	0.296011102		Placer	Tier 2	FALSE	TRUE	TRUE
LINCOLN 1104818790	LINCOLN 1104	2.134098738		Placer	Tier 2	FALSE	TRUE	FALSE
LINCOLN 1104997576	LINCOLN 1104	9.846010377		Placer	Tier 2	FALSE	TRUE	FALSE
LINCOLN 1104CB	LINCOLN 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 11051276	LINCOLN 1105	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 11051278	LINCOLN 1105	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 1105CB	LINCOLN 1105	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 2108CB	LINCOLN 2108	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 2109924404	LINCOLN 2109	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINCOLN 2109CB	LINCOLN 2109	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 110111944	LINDEN 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 110112182	LINDEN 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 110144878	LINDEN 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 1101CB	LINDEN 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 11032359	LINDEN 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 11033042	LINDEN 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 11033044	LINDEN 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 11033046	LINDEN 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 1103385228	LINDEN 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 1103462603	LINDEN 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 1103542460	LINDEN 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 1103CB	LINDEN 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 11042456	LINDEN 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 11042458	LINDEN 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 1104635751	LINDEN 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LINDEN 1104CB	LINDEN 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LIVE OAK 1101136102	LIVE OAK 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
LIVE OAK 1101338916	LIVE OAK 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
LIVE OAK 110139602	LIVE OAK 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
LIVE OAK 1101425666	LIVE OAK 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
LIVE OAK 1101CB	LIVE OAK 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
LIVE OAK 11021340	LIVE OAK 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
LIVE OAK 1102CB	LIVE OAK 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
LIVE OAK 11041300	LIVE OAK 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
LIVE OAK 1104309742	LIVE OAK 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
LIVE OAK 110448420	LIVE OAK 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
LIVE OAK 110451586	LIVE OAK 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
LIVE OAK 110464196	LIVE OAK 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
LIVE OAK 1104CB	LIVE OAK 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
LIVERMORE 1101CB	LIVERMORE 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
LIVERMORE 1101MR328	LIVERMORE 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LIVERMORE 1102CB	LIVERMORE 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LIVERMORE 11036792	LIVERMORE 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LIVERMORE 1103CB	LIVERMORE 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LIVERMORE 1103MR286	LIVERMORE 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LIVERMORE 1104CB	LIVERMORE 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LIVERMORE 1104MR192	LIVERMORE 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LIVERMORE 1104MR271	LIVERMORE 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 11014080	LIVINGSTON 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 11014210	LIVINGSTON 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 110155936	LIVINGSTON 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 11017010	LIVINGSTON 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 110190010	LIVINGSTON 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 110190480	LIVINGSTON 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 110190490	LIVINGSTON 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 1101CB	LIVINGSTON 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 11029750	LIVINGSTON 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 1102CB	LIVINGSTON 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 110411260	LIVINGSTON 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 1104261292	LIVINGSTON 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 1104783470	LIVINGSTON 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 110498586	LIVINGSTON 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 1104CB	LIVINGSTON 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 1105187702	LIVINGSTON 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 110529612	LIVINGSTON 1105	0		Merced	Non-HFTD	TRUE	TRUE	FALSE
LIVINGSTON 11053900	LIVINGSTON 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 110553156	LIVINGSTON 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 1105CB	LIVINGSTON 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 110611500	LIVINGSTON 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 1106215606	LIVINGSTON 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 110637390	LIVINGSTON 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 11064900	LIVINGSTON 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 1106815510	LIVINGSTON 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LIVINGSTON 1106CB	LIVINGSTON 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 210137264	LLAGAS 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 21013835	LLAGAS 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 21014523	LLAGAS 2101	0.793737389		Santa Clara	Tier 2	FALSE	TRUE	TRUE
LLAGAS 2101984552	LLAGAS 2101	4.59676381		Santa Clara	Tier 2	FALSE	TRUE	FALSE
LLAGAS 2101CB	LLAGAS 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2101XR244	LLAGAS 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2101XR264	LLAGAS 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2101XR322	LLAGAS 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2101XR584	LLAGAS 2101	5.902954058		Santa Clara	Tier 2	FALSE	TRUE	TRUE
LLAGAS 2101XR586	LLAGAS 2101	10.0800528		Santa Clara	Tier 2	FALSE	TRUE	TRUE
LLAGAS 2102CB	LLAGAS 2102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2102XR190	LLAGAS 2102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2102XR492	LLAGAS 2102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2103CB	LLAGAS 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2103XR006	LLAGAS 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2103XR286	LLAGAS 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2103XR402	LLAGAS 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2103XR424	LLAGAS 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2104524360	LLAGAS 2104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2104603392	LLAGAS 2104	3.213574526		Santa Clara	Tier 2	FALSE	TRUE	FALSE
LLAGAS 2104735530	LLAGAS 2104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2104CB	LLAGAS 2104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2104XR148	LLAGAS 2104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2104XR294	LLAGAS 2104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2105CB	LLAGAS 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2105XR008	LLAGAS 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2105XR144	LLAGAS 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2105XR234	LLAGAS 2105	0.587534754		Santa Clara	Tier 3	FALSE	TRUE	TRUE
LLAGAS 2105XR320	LLAGAS 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2106338878	LLAGAS 2106	2.650883096		Santa Clara	Tier 2	FALSE	TRUE	FALSE
LLAGAS 2106517530	LLAGAS 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2106CB	LLAGAS 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2106XR296	LLAGAS 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2107142710	LLAGAS 2107	0.357070379		Santa Clara	Tier 3	FALSE	TRUE	FALSE
LLAGAS 2107374344	LLAGAS 2107	4.9628473		Santa Clara	Tier 3	FALSE	TRUE	TRUE
LLAGAS 2107870396	LLAGAS 2107	0.738980498		Santa Clara	Tier 2	FALSE	TRUE	TRUE
LLAGAS 2107CB	LLAGAS 2107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LLAGAS 2107XR188	LLAGAS 2107	0.210040457		Santa Clara	Tier 2	FALSE	TRUE	TRUE
LOCKEFORD 21011330	LOCKEFORD 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 21012488	LOCKEFORD 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 21013002	LOCKEFORD 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210137600	LOCKEFORD 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 21013912	LOCKEFORD 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210148604	LOCKEFORD 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 21015724	LOCKEFORD 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210157564	LOCKEFORD 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210167588	LOCKEFORD 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210180774	LOCKEFORD 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 2101CB	LOCKEFORD 2101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210211692	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210212462	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210212464	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210212466	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210212468	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210212472	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210212686	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210220355	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 2102206884	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 21022130	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 21022136	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210237614	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210238342	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 21024045	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210243430	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 21024482	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 21024484	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 210256996	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
LOCKEFORD 210257876	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 21026204	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 21026414	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKEFORD 2102CB	LOCKEFORD 2102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOCKHEED NO 2 1103CB	LOCKHEED NO 2 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOCKHEED NO 2 1106CB	LOCKHEED NO 2 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOCKHEED NO 2 1107CB	LOCKHEED NO 2 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOCKHEED NO 2 1108CB	LOCKHEED NO 2 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LODI 110112190	LODI 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 110114322	LODI 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 110134834	LODI 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 110164912	LODI 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 1101CB	LODI 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 110212592	LODI 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 110212596	LODI 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 110223758	LODI 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 1102301436	LODI 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 110237602	LODI 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 110237604	LODI 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 110268142	LODI 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 1102715365	LODI 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 110283726	LODI 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LODI 1102CB	LODI 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 210114532	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 21012030	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 21012218	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 21012404	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 21012406	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 21012430	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 21012432	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 21012444	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 210137268	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 210137352	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 210157110	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 210164198	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 210168978	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 210174576	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 210175318	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 2101CB	LOGAN CREEK 2101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 21022226	LOGAN CREEK 2102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 21022428	LOGAN CREEK 2102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 21022442	LOGAN CREEK 2102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 21022454	LOGAN CREEK 2102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 21022540	LOGAN CREEK 2102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 21022554	LOGAN CREEK 2102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 210237316	LOGAN CREEK 2102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 210247194	LOGAN CREEK 2102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 210262032	LOGAN CREEK 2102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 210268318	LOGAN CREEK 2102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 210269358	LOGAN CREEK 2102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 2102767046	LOGAN CREEK 2102	3.477720269		Glenn	Tier 2	FALSE	TRUE	TRUE
LOGAN CREEK 2102806	LOGAN CREEK 2102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 2102CB	LOGAN CREEK 2102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 2103CB	LOGAN CREEK 2103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LOGAN CREEK 2199CB	LOGAN CREEK 2199	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
LONE TREE 2101CB	LONE TREE 2101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LONE TREE 2102405024	LONE TREE 2102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LONE TREE 210268100	LONE TREE 2102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LONE TREE 2102B558R	LONE TREE 2102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LONE TREE 2102CB	LONE TREE 2102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LONE TREE 2105708440	LONE TREE 2105	10.71431329		Contra Costa	Tier 2	FALSE	TRUE	TRUE
LONE TREE 2105CB	LONE TREE 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
LOS ALTOS 1103274094	LOS ALTOS 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOS ALTOS 1103CB	LOS ALTOS 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOS ALTOS 1104CB	LOS ALTOS 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOS ALTOS 1104LM16	LOS ALTOS 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOS ALTOS 1104LM18	LOS ALTOS 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOS ALTOS 1104LM22	LOS ALTOS 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOS ALTOS 1105CB	LOS ALTOS 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOS ALTOS 110660028	LOS ALTOS 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOS ALTOS 1106CB	LOS ALTOS 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOS ALTOS 1107CB	LOS ALTOS 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOS COCHES 1101625902	LOS COCHES 1101	2.293231535		Monterey	Tier 2	FALSE	TRUE	TRUE
LOS COCHES 1101CB	LOS COCHES 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS COCHES 110255146	LOS COCHES 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS COCHES 110256346	LOS COCHES 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS COCHES 11027046	LOS COCHES 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS COCHES 11027514	LOS COCHES 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS COCHES 110275272	LOS COCHES 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS COCHES 1102CB	LOS COCHES 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS GATOS 1101206248	LOS GATOS 1101	0.043347647		Santa Clara	Tier 2	FALSE	TRUE	TRUE
LOS GATOS 1101502026	LOS GATOS 1101	0.055728116		Santa Clara	Tier 2	FALSE	TRUE	TRUE
LOS GATOS 110160052	LOS GATOS 1101	1.903447761		Santa Clara	Tier 2	FALSE	TRUE	FALSE
LOS GATOS 110160136	LOS GATOS 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOS GATOS 1101950286	LOS GATOS 1101	1.032884357		Santa Clara	Tier 2	FALSE	TRUE	FALSE
LOS GATOS 1101CB	LOS GATOS 1101	0.520453947		Santa Clara	Tier 2	FALSE	TRUE	TRUE
LOS GATOS 1101LB40	LOS GATOS 1101	8.253466015		Santa Clara	Tier 2	FALSE	TRUE	TRUE
LOS GATOS 1102526868	LOS GATOS 1102	1.096496796		Santa Clara	Tier 2	FALSE	TRUE	TRUE
LOS GATOS 1102CB	LOS GATOS 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOS GATOS 110660116	LOS GATOS 1106	16.30823903		Santa Clara	Tier 3	FALSE	TRUE	TRUE
LOS GATOS 1106697500	LOS GATOS 1106	6.621410048		Santa Clara	Tier 3	FALSE	TRUE	TRUE
LOS GATOS 1106917258	LOS GATOS 1106	4.096071546		Santa Clara	Tier 3	FALSE	TRUE	TRUE
LOS GATOS 1106CB	LOS GATOS 1106	0.098835628		Santa Clara	Tier 2	FALSE	TRUE	TRUE
LOS GATOS 1106LA64	LOS GATOS 1106	12.61897734		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
LOS GATOS 1106LB44	LOS GATOS 1106	15.37075294		Santa Clara	Tier 3	FALSE	TRUE	TRUE
LOS GATOS 1106LB48	LOS GATOS 1106	14.68424021		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
LOS GATOS 110760024	LOS GATOS 1107	3.730024084		Santa Clara	Tier 3	FALSE	TRUE	TRUE
LOS GATOS 110760092	LOS GATOS 1107	9.858064088		Santa Clara	Tier 3	FALSE	TRUE	TRUE
LOS GATOS 110760114	LOS GATOS 1107	23.88487321		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
LOS GATOS 110760118	LOS GATOS 1107	18.68184508		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
LOS GATOS 1107772050	LOS GATOS 1107	14.53118339		Santa Cruz	Tier 3	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
LOS GATOS 1107914254	LOS GATOS 1107	1.17346803		Santa Clara	Tier 3	FALSE	TRUE	TRUE
LOS GATOS 1107CB	LOS GATOS 1107	13.27347889		Santa Clara	Tier 3	FALSE	TRUE	TRUE
LOS GATOS 1108CB	LOS GATOS 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOS GATOS 1108LB86	LOS GATOS 1108	4.413358293		Santa Clara	Tier 3	FALSE	TRUE	TRUE
LOS MOLINOS 11011308	LOS MOLINOS 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
LOS MOLINOS 1101297862	LOS MOLINOS 1101	0.189286175		Tehama	Tier 2	FALSE	TRUE	FALSE
LOS MOLINOS 110154804	LOS MOLINOS 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
LOS MOLINOS 110163998	LOS MOLINOS 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
LOS MOLINOS 110171402	LOS MOLINOS 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
LOS MOLINOS 1101CB	LOS MOLINOS 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
LOS MOLINOS 11023302	LOS MOLINOS 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
LOS MOLINOS 1102CB	LOS MOLINOS 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 2101109138	LOS OSITOS 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 2101115450	LOS OSITOS 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 210137376	LOS OSITOS 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 21017058	LOS OSITOS 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 21017594	LOS OSITOS 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 210187960	LOS OSITOS 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 2101CB	LOS OSITOS 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 2102148504	LOS OSITOS 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 2102258878	LOS OSITOS 2102	2.480015575		Monterey	Tier 2	FALSE	TRUE	TRUE
LOS OSITOS 2102624200	LOS OSITOS 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 21027470	LOS OSITOS 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 21027592	LOS OSITOS 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 2102780218	LOS OSITOS 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 2102CB	LOS OSITOS 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 21031132	LOS OSITOS 2103	0.110280884		San Benito	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 2103174580	LOS OSITOS 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 2103220608	LOS OSITOS 2103	0.974962904		Monterey	Tier 2	FALSE	TRUE	TRUE
LOS OSITOS 2103258688	LOS OSITOS 2103	0.631589988		Monterey	Tier 2	FALSE	TRUE	TRUE
LOS OSITOS 21033010	LOS OSITOS 2103	29.93726189		Monterey	Tier 2	FALSE	TRUE	TRUE
LOS OSITOS 2103606732	LOS OSITOS 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 210364348	LOS OSITOS 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 210366936	LOS OSITOS 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 2103695270	LOS OSITOS 2103	0.619617605		Monterey	Tier 2	FALSE	TRUE	TRUE
LOS OSITOS 21037014	LOS OSITOS 2103	38.16840969		San Benito	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 21037062	LOS OSITOS 2103	12.14556448		Monterey	Tier 2	FALSE	TRUE	TRUE
LOS OSITOS 21037082	LOS OSITOS 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 21037086	LOS OSITOS 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 21037468	LOS OSITOS 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOS OSITOS 2103CB	LOS OSITOS 2103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
LOW GAP 1101274514	LOW GAP 1101	1.692533327		Humboldt	Tier 2	FALSE	TRUE	FALSE
LOW GAP 110137498	LOW GAP 1101	16.23410245		Trinity	Tier 2	FALSE	TRUE	FALSE
LOW GAP 11014086	LOW GAP 1101	11.58806493		Trinity	Tier 2	TRUE	TRUE	FALSE
LOW GAP 11014160	LOW GAP 1101	17.34988882		Trinity	Tier 2	TRUE	TRUE	TRUE
LOW GAP 1101449990	LOW GAP 1101	3.924327583		Trinity	Tier 2	TRUE	TRUE	TRUE
LOW GAP 1101603404	LOW GAP 1101	9.17469054		Trinity	Tier 2	FALSE	TRUE	TRUE
LOW GAP 1101750090	LOW GAP 1101	5.909989979		Humboldt	Tier 2	FALSE	TRUE	FALSE
LOW GAP 110186816	LOW GAP 1101	4.378806545		Trinity	Tier 2	FALSE	TRUE	FALSE
LOW GAP 1101CB	LOW GAP 1101	2.111892326		Trinity	Tier 2	FALSE	TRUE	TRUE
LOYOLA 0401CB	LOYOLA 0401	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOYOLA 0401LM02	LOYOLA 0401	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOYOLA 0403CB	LOYOLA 0403	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOYOLA 110160096	LOYOLA 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOYOLA 1101CB	LOYOLA 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOYOLA 1102429970	LOYOLA 1102	0.018816097		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOYOLA 1102550291	LOYOLA 1102	4.48481717		Santa Clara	Tier 2	FALSE	TRUE	TRUE
LOYOLA 110260128	LOYOLA 1102	0.37934807		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOYOLA 1102CB	LOYOLA 1102	0.36832647		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOYOLA 1102LL12	LOYOLA 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOYOLA 1102LL62	LOYOLA 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOYOLA 1102LL64	LOYOLA 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOYOLA 1102LL66	LOYOLA 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LOYOLA 1102LL86	LOYOLA 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
LUCERNE 11031280	LUCERNE 1103	2.760109628		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 11031663	LUCERNE 1103	1.213071443		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 1103245134	LUCERNE 1103	4.464923423		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 11034200	LUCERNE 1103	3.958700701		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 1103438776	LUCERNE 1103	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
LUCERNE 11034624	LUCERNE 1103	0.026607232		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 1103630	LUCERNE 1103	12.10711839		Lake	Tier 2	TRUE	TRUE	TRUE
LUCERNE 1103721	LUCERNE 1103	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
LUCERNE 1103CB	LUCERNE 1103	2.106586104		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 11062327	LUCERNE 1106	1.178850145		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 11062355	LUCERNE 1106	0.36092875		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 110638436	LUCERNE 1106	4.440594355		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 110638632	LUCERNE 1106	5.258750849		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 1106439842	LUCERNE 1106	2.022635294		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 110647198	LUCERNE 1106	1.453439026		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 1106526	LUCERNE 1106	9.709460043		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 1106664	LUCERNE 1106	9.335749562		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 1106709252	LUCERNE 1106	0.920206654		Lake	Tier 2	FALSE	TRUE	FALSE
LUCERNE 110676850	LUCERNE 1106	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
LUCERNE 1106857174	LUCERNE 1106	0.486328242		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 1106988590	LUCERNE 1106	0.406807404		Lake	Tier 2	FALSE	TRUE	TRUE
LUCERNE 1106CB	LUCERNE 1106	1.227777765		Lake	Tier 2	TRUE	TRUE	TRUE
MABURY 1101CB	MABURY 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MABURY 1103CB	MABURY 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MABURY 1103XR346	MABURY 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MABURY 1104286586	MABURY 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MABURY 1104880296	MABURY 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MABURY 1104CB	MABURY 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MABURY 1104XR274	MABURY 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MABURY 1105CB	MABURY 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MABURY 1106CB	MABURY 1106	0		Santa Clara	Non-HFTD	TRUE	TRUE	FALSE
MABURY 1106XR026	MABURY 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MABURY 1106XR116	MABURY 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MADERA 1102CB	MADERA 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 11041990	MADERA 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 110449760	MADERA 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 1104CB	MADERA 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
MADERA 110611730	MADERA 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 110690534	MADERA 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 1106CB	MADERA 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 111211550	MADERA 1112	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 11125800	MADERA 1112	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 11126360	MADERA 1112	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 1112CB	MADERA 1112	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 111411430	MADERA 1114	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 1114CB	MADERA 1114	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 1116615882	MADERA 1116	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 1116CB	MADERA 1116	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 1118205056	MADERA 1118	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 1118610994	MADERA 1118	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 11189810	MADERA 1118	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 1118CB	MADERA 1118	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 11195040	MADERA 1119	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 11195330	MADERA 1119	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 11195820	MADERA 1119	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 1119583476	MADERA 1119	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 11196450	MADERA 1119	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 11196552	MADERA 1119	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 1119677002	MADERA 1119	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 11199540	MADERA 1119	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADERA 1119CB	MADERA 1119	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
MADISON 110320062	MADISON 1103	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 110323452	MADISON 1103	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 110353322	MADISON 1103	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 11038822	MADISON 1103	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 1103CB	MADISON 1103	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 1105489630	MADISON 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 1105495270	MADISON 1105	0.050671696		Yolo	Tier 2	FALSE	TRUE	TRUE
MADISON 11057552	MADISON 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 11057712	MADISON 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 1105961978	MADISON 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 1105995448	MADISON 1105	0.299388753		Yolo	Tier 2	FALSE	TRUE	TRUE
MADISON 1105CB	MADISON 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 2101117644	MADISON 2101	0.498358304		Yolo	Tier 2	FALSE	TRUE	TRUE
MADISON 210112321	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 21011606	MADISON 2101	0.141329861		Yolo	Tier 2	TRUE	TRUE	TRUE
MADISON 2101168918	MADISON 2101	0.147978717		Yolo	Tier 2	FALSE	TRUE	TRUE
MADISON 21011943	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 210120052	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 210123272	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 210134164	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 2101351038	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 210137082	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 210144634	MADISON 2101	2.668669078		Yolo	Tier 2	FALSE	TRUE	TRUE
MADISON 2101484892	MADISON 2101	0.318457477		Yolo	Tier 2	FALSE	TRUE	TRUE
MADISON 210163762	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 2101647730	MADISON 2101	0.047082124		Yolo	Tier 2	FALSE	TRUE	TRUE
MADISON 21016617	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 2101725408	MADISON 2101	0.610710907		Yolo	Tier 2	FALSE	TRUE	FALSE
MADISON 2101732852	MADISON 2101	0.006112669		Yolo	Tier 2	FALSE	TRUE	TRUE
MADISON 2101760730	MADISON 2101	0.166278724		Yolo	Tier 2	FALSE	TRUE	TRUE
MADISON 21017702	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 2101845694	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 2101888814	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 210189332	MADISON 2101	0.408460382		Yolo	Tier 2	FALSE	TRUE	TRUE
MADISON 2101936212	MADISON 2101	0.806321535		Yolo	Tier 2	FALSE	TRUE	TRUE
MADISON 21019512	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MADISON 2101CB	MADISON 2101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 110115264	MAGUNDEN 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 110148518	MAGUNDEN 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 110188892	MAGUNDEN 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 1101CB	MAGUNDEN 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 1104CB	MAGUNDEN 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 11054439	MAGUNDEN 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 1105878284	MAGUNDEN 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 1105CB	MAGUNDEN 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 11064176	MAGUNDEN 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 11064445	MAGUNDEN 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 11064849	MAGUNDEN 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 1106CB	MAGUNDEN 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 1108160464	MAGUNDEN 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 1108250674	MAGUNDEN 1108	3.930635211		Kern	Tier 2	FALSE	TRUE	TRUE
MAGUNDEN 1108563881	MAGUNDEN 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 1108804974	MAGUNDEN 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 1108CB	MAGUNDEN 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 21081267	MAGUNDEN 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 210814402	MAGUNDEN 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 2108216392	MAGUNDEN 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 2108289792	MAGUNDEN 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 2108292736	MAGUNDEN 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 2108323832	MAGUNDEN 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 21084227	MAGUNDEN 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 21084505	MAGUNDEN 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 2108636808	MAGUNDEN 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 210892790	MAGUNDEN 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 2108CB	MAGUNDEN 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 21094102	MAGUNDEN 2109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAGUNDEN 2109CB	MAGUNDEN 2109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MAINE PRAIRIE 0401CB	MAINE PRAIRIE 0401	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1101CB	MALAGA 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 110272042	MALAGA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1102CB	MALAGA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1102R45	MALAGA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1102R9215	MALAGA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1103CB	MALAGA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1103R1110	MALAGA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 110455326	MALAGA 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 110455328	MALAGA 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
MALAGA 1104CB	MALAGA 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1104R9510	MALAGA 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1105CB	MALAGA 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 110690812	MALAGA 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1106CB	MALAGA 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1107CB	MALAGA 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1108CB	MALAGA 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1108R9217	MALAGA 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 110968312	MALAGA 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1109CB	MALAGA 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1110CB	MALAGA 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1110R176	MALAGA 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1110R9547	MALAGA 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MALAGA 1111CB	MALAGA 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1101289264	MANCHESTER 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 110133068	MANCHESTER 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1101CB	MANCHESTER 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1102CB	MANCHESTER 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1103CB	MANCHESTER 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1104351482	MANCHESTER 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1104CB	MANCHESTER 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1105859208	MANCHESTER 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1105952950	MANCHESTER 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1105CB	MANCHESTER 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1106628276	MANCHESTER 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1106CB	MANCHESTER 1106	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
MANCHESTER 1106R213	MANCHESTER 1106	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
MANCHESTER 1107CB	MANCHESTER 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1108CB	MANCHESTER 1108	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
MANCHESTER 1108D8824	MANCHESTER 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 11099509	MANCHESTER 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1109CB	MANCHESTER 1109	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
MANCHESTER 1109D6083	MANCHESTER 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1109R9418	MANCHESTER 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1110CB	MANCHESTER 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1111829450	MANCHESTER 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1111CB	MANCHESTER 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 111255404	MANCHESTER 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 111255406	MANCHESTER 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANCHESTER 1112CB	MANCHESTER 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170114588	MANTECA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170184188	MANTECA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170193022	MANTECA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 1701992915	MANTECA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 1701CB	MANTECA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 1702CB	MANTECA 1702	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170323670	MANTECA 1703	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170338588	MANTECA 1703	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 1703CB	MANTECA 1703	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170414590	MANTECA 1704	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170414784	MANTECA 1704	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 17047788	MANTECA 1704	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 1704CB	MANTECA 1704	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 1705391150	MANTECA 1705	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170555786	MANTECA 1705	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 17058990	MANTECA 1705	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170599928	MANTECA 1705	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 1705CB	MANTECA 1705	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170636142	MANTECA 1706	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 1706CB	MANTECA 1706	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170712616	MANTECA 1707	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 1707621318	MANTECA 1707	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 1707CB	MANTECA 1707	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170866580	MANTECA 1708	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170875060	MANTECA 1708	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 170880800	MANTECA 1708	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 1708878023	MANTECA 1708	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MANTECA 1708CB	MANTECA 1708	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MAPLE 0401CB	MAPLE 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MAPLE CREEK 1101555034	MAPLE CREEK 1101	2.531440181		Humboldt	Tier 2	FALSE	TRUE	FALSE
MAPLE CREEK 11016906	MAPLE CREEK 1101	18.18024471		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
MAPLE CREEK 1101CB	MAPLE CREEK 1101	12.0889502		Humboldt	Tier 2	FALSE	TRUE	FALSE
MARICOPA 1101931236	MARICOPA 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MARICOPA 1101CB	MARICOPA 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MARICOPA 11023082	MARICOPA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MARICOPA 11023558	MARICOPA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MARICOPA 1102453320	MARICOPA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MARICOPA 110265196	MARICOPA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MARICOPA 1102CB	MARICOPA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MARINA (F) 0401CB	MARINA (F) 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MARINA (F) 0402CB	MARINA (F) 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MARINA (F) 0403CB	MARINA (F) 0403	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MARINA (F) 0404CB	MARINA (F) 0404	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MARINA (F) 0405CB	MARINA (F) 0405	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MARINA (F) 040740279	MARINA (F) 0407	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MARINA (F) 0407CB	MARINA (F) 0407	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MARINA (F) 0408CB	MARINA (F) 0408	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MARINA (F) 1101CB	MARINA (F) 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MARINA (F) 1102CB	MARINA (F) 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MARINA (F) 1103590724	MARINA (F) 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MARINA (F) 1103CB	MARINA (F) 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MARIPOSA 210110170	MARIPOSA 2101	14.93444285		Mariposa	Tier 3	TRUE	TRUE	TRUE
MARIPOSA 210110240	MARIPOSA 2101	20.45441584		Mariposa	Tier 3	TRUE	TRUE	TRUE
MARIPOSA 210110990	MARIPOSA 2101	38.71708901		Mariposa	Tier 2	TRUE	TRUE	TRUE
MARIPOSA 2101151918	MARIPOSA 2101	16.58592724		Mariposa	Tier 3	TRUE	TRUE	TRUE
MARIPOSA 2101309438	MARIPOSA 2101	3.087889379		Mariposa	Tier 2	TRUE	TRUE	TRUE
MARIPOSA 2101439030	MARIPOSA 2101	19.44074259		Mariposa	Tier 3	FALSE	TRUE	TRUE
MARIPOSA 21014410	MARIPOSA 2101	22.54014547		Mariposa	Tier 3	FALSE	TRUE	TRUE
MARIPOSA 2101752630	MARIPOSA 2101	18.70976815		Mariposa	Tier 3	FALSE	TRUE	TRUE
MARIPOSA 210190180	MARIPOSA 2101	4.870176449		Mariposa	Tier 2	FALSE	TRUE	TRUE
MARIPOSA 2101929360	MARIPOSA 2101	0.06711791		Mariposa	Tier 2	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
MARIPOSA 21019400	MARIPOSA 2101	60.77827429		Mariposa	Tier 3	TRUE	TRUE	TRUE
MARIPOSA 210197142	MARIPOSA 2101	4.458382537		Mariposa	Tier 2	FALSE	TRUE	TRUE
MARIPOSA 2101CB	MARIPOSA 2101	2.488026551		Mariposa	Tier 2	FALSE	TRUE	TRUE
MARIPOSA 210210880	MARIPOSA 2102	38.70319493		Mariposa	Tier 3	TRUE	TRUE	FALSE
MARIPOSA 21021960	MARIPOSA 2102	24.1722835		Mariposa	Tier 3	FALSE	TRUE	TRUE
MARIPOSA 2102241564	MARIPOSA 2102	0.964870009		Mariposa	Tier 3	TRUE	TRUE	TRUE
MARIPOSA 210237282	MARIPOSA 2102	50.61851644		Mariposa	Tier 3	FALSE	TRUE	TRUE
MARIPOSA 210237288	MARIPOSA 2102	85.05974536		Mariposa	Tier 3	TRUE	TRUE	TRUE
MARIPOSA 2102527766	MARIPOSA 2102	0.056358707		Mariposa	Tier 2	FALSE	TRUE	TRUE
MARIPOSA 2102594143	MARIPOSA 2102	0.014932753		Mariposa	Tier 2	FALSE	TRUE	TRUE
MARIPOSA 2102851902	MARIPOSA 2102	4.220586303		Mariposa	Tier 3	FALSE	TRUE	TRUE
MARIPOSA 21029590	MARIPOSA 2102	36.06581944		Mariposa	Tier 2	TRUE	TRUE	TRUE
MARIPOSA 2102CB	MARIPOSA 2102	5.353101995		Mariposa	Tier 2	FALSE	TRUE	TRUE
MARIPOSA REMOTE 0001CB	MARIPOSA REMOTE 0001	0.009469713		Mariposa	Tier 2	FALSE	TRUE	TRUE
MARTELL 110111244	MARTELL 1101	20.65390023		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 1101131918	MARTELL 1101	0.365141522		Amador	Tier 2	FALSE	TRUE	FALSE
MARTELL 1101185268	MARTELL 1101	0.306493237		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 1101250060	MARTELL 1101	0.595389363		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 1101473004	MARTELL 1101	0.115748727		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 1101532836	MARTELL 1101	2.101228616		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 11016074	MARTELL 1101	3.703681331		Amador	Tier 2	FALSE	TRUE	FALSE
MARTELL 1101766574	MARTELL 1101	0.60910741		Amador	Tier 2	FALSE	TRUE	FALSE
MARTELL 1101803328	MARTELL 1101	0.136107856		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 110191216	MARTELL 1101	40.27336149		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 1101915018	MARTELL 1101	0.60908736		Amador	Tier 2	FALSE	TRUE	FALSE
MARTELL 110198374	MARTELL 1101	0.10144226		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 1101CB	MARTELL 1101	0.219047433		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 110292172	MARTELL 1102	0.013364961		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 110299214	MARTELL 1102	1.755704206		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 1102CB	MARTELL 1102	5.110589972		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 11033152	MARTELL 1103	16.65391087		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 110368192	MARTELL 1103	2.590208467		Amador	Tier 2	FALSE	TRUE	TRUE
MARTELL 1103CB	MARTELL 1103	1.163623021		Amador	Tier 2	FALSE	TRUE	TRUE
MARYSVILLE 1102CB	MARYSVILLE 1102	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
MARYSVILLE 110399726	MARYSVILLE 1103	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
MARYSVILLE 1103CB	MARYSVILLE 1103	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
MARYSVILLE 1104CB	MARYSVILLE 1104	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
MARYSVILLE 1105CB	MARYSVILLE 1105	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
MARYSVILLE 1106CB	MARYSVILLE 1106	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
MARYSVILLE 1107CB	MARYSVILLE 1107	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
MARYSVILLE 1108150116	MARYSVILLE 1108	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
MARYSVILLE 110850856	MARYSVILLE 1108	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
MARYSVILLE 1108740650	MARYSVILLE 1108	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
MARYSVILLE 1108CB	MARYSVILLE 1108	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 11023004	MAXWELL 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 11023038	MAXWELL 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 11023306	MAXWELL 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 1102CB	MAXWELL 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 11053006	MAXWELL 1105	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 11053008	MAXWELL 1105	3.897440552		Colusa	Tier 2	FALSE	TRUE	TRUE
MAXWELL 110530456	MAXWELL 1105	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 11053060	MAXWELL 1105	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 11053302	MAXWELL 1105	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 1105429752	MAXWELL 1105	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 110545180	MAXWELL 1105	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 1105910362	MAXWELL 1105	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 1105CB	MAXWELL 1105	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 11063036	MAXWELL 1106	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MAXWELL 1106CB	MAXWELL 1106	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MC ARTHUR 11011488	MC ARTHUR 1101	1.625706084		Shasta	Tier 2	FALSE	TRUE	TRUE
MC ARTHUR 11011490	MC ARTHUR 1101	8.767145137		Shasta	Tier 2	FALSE	TRUE	FALSE
MC ARTHUR 11011492	MC ARTHUR 1101	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
MC ARTHUR 11011544	MC ARTHUR 1101	17.29067031		Lassen	Tier 2	FALSE	TRUE	TRUE
MC ARTHUR 11011546	MC ARTHUR 1101	12.7461508		Lassen	Tier 2	FALSE	TRUE	TRUE
MC ARTHUR 110137344	MC ARTHUR 1101	0.058559278		Lassen	Tier 2	FALSE	TRUE	TRUE
MC ARTHUR 110137388	MC ARTHUR 1101	7.683790444		Lassen	Tier 2	FALSE	TRUE	FALSE
MC ARTHUR 110138998	MC ARTHUR 1101	0.402920226		Shasta	Tier 2	FALSE	TRUE	TRUE
MC ARTHUR 1101501106	MC ARTHUR 1101	9.593430408		Lassen	Tier 2	FALSE	TRUE	TRUE
MC ARTHUR 110151398	MC ARTHUR 1101	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
MC ARTHUR 110153120	MC ARTHUR 1101	0.101366291		Shasta	Tier 2	FALSE	TRUE	TRUE
MC ARTHUR 1101648698	MC ARTHUR 1101	10.25862212		Lassen	Tier 2	FALSE	TRUE	TRUE
MC ARTHUR 1101CB	MC ARTHUR 1101	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
MC ARTHUR 11021324	MC ARTHUR 1102	0.097198477		Shasta	Tier 2	FALSE	TRUE	TRUE
MC ARTHUR 1102542920	MC ARTHUR 1102	0.985171533		Shasta	Tier 2	FALSE	TRUE	FALSE
MC ARTHUR 110290546	MC ARTHUR 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
MC ARTHUR 1102CB	MC ARTHUR 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
MC ARTHUR 1102LR-RC-B	MC ARTHUR 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11015040	MC CALL 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11016080	MC CALL 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11016260	MC CALL 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11016779F	MC CALL 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11016790	MC CALL 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1101CB	MC CALL 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1102310426	MC CALL 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1102CB	MC CALL 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 110341168	MC CALL 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1103744486	MC CALL 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 110379896	MC CALL 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 110386670	MC CALL 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 110390986	MC CALL 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 110398596	MC CALL 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1103CB	MC CALL 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1104CB	MC CALL 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 110538010	MC CALL 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11055160	MC CALL 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1105CB	MC CALL 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 110641780	MC CALL 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11064282F	MC CALL 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1106430534	MC CALL 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11065000	MC CALL 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1106589348	MC CALL 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
MC CALL 11066280	MC CALL 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1106640598	MC CALL 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11066950	MC CALL 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1106CB	MC CALL 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 110738274	MC CALL 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 110738694	MC CALL 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11076090	MC CALL 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11076150	MC CALL 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1107622818	MC CALL 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 110766127	MC CALL 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 110793024	MC CALL 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 110793252	MC CALL 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1107CB	MC CALL 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1108406358	MC CALL 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1108466172	MC CALL 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 110848144	MC CALL 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11086540	MC CALL 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11086970	MC CALL 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 11086980	MC CALL 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC CALL 1108CB	MC CALL 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 110184604	MC FARLAND 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 1101CB	MC FARLAND 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 11021418	MC FARLAND 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 1102499013	MC FARLAND 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 1102CB	MC FARLAND 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 1104152466	MC FARLAND 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 1104330930	MC FARLAND 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 1104521389	MC FARLAND 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 1104708132	MC FARLAND 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 1104950506	MC FARLAND 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 1104956589	MC FARLAND 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 1104CB	MC FARLAND 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 1105128091	MC FARLAND 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC FARLAND 1105CB	MC FARLAND 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1103333750	MC KEE 1103	0.603369173		Santa Clara	Tier 2	FALSE	TRUE	FALSE
MC KEE 1103CB	MC KEE 1103	0		Santa Clara	Non-HFTD	TRUE	TRUE	FALSE
MC KEE 1103XR028	MC KEE 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 110468892	MC KEE 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1104CB	MC KEE 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1104XR100	MC KEE 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1104XR270	MC KEE 1104	0		Santa Clara	Non-HFTD	TRUE	TRUE	FALSE
MC KEE 1105773372	MC KEE 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1105CB	MC KEE 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1105XR272	MC KEE 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 110693368	MC KEE 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 110698388	MC KEE 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1106CB	MC KEE 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1107827486	MC KEE 1107	2.675687524		Santa Clara	Tier 2	FALSE	TRUE	FALSE
MC KEE 1107CB	MC KEE 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1107XR010	MC KEE 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1107XR032	MC KEE 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1107XR462	MC KEE 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 110870535	MC KEE 1108	0.659459185		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MC KEE 1108CB	MC KEE 1108	0		Santa Clara	Non-HFTD	TRUE	TRUE	FALSE
MC KEE 1108XR302	MC KEE 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1109CB	MC KEE 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1110CB	MC KEE 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1110XR344	MC KEE 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1111247498	MC KEE 1111	8.615261594		Santa Clara	Tier 2	FALSE	TRUE	FALSE
MC KEE 111169100	MC KEE 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1111711900	MC KEE 1111	0.088159767		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MC KEE 1111CB	MC KEE 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1111XR132	MC KEE 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 111275342	MC KEE 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1112CB	MC KEE 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1112XR098	MC KEE 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC KEE 1112XR256	MC KEE 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 11045190	MC MULLIN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 11046130	MC MULLIN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 11046310	MC MULLIN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 1104CB	MC MULLIN 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 11055200	MC MULLIN 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 11056450	MC MULLIN 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 11056720	MC MULLIN 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 1105840744	MC MULLIN 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 1105CB	MC MULLIN 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 1105CUS9322	MC MULLIN 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 1106498152	MC MULLIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 11065402F	MC MULLIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 11066180	MC MULLIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 11066420	MC MULLIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 11066700	MC MULLIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 11066770	MC MULLIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 11066780	MC MULLIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 11066817F	MC MULLIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MC MULLIN 1106CB	MC MULLIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MCKITTRICK 11011639	MCKITTRICK 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MCKITTRICK 11013043	MCKITTRICK 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MCKITTRICK 11013092	MCKITTRICK 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MCKITTRICK 1101CB	MCKITTRICK 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2102CB	MEADOW LANE 2102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 210365632	MEADOW LANE 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 210379492	MEADOW LANE 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 210388136	MEADOW LANE 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 210395110	MEADOW LANE 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2103C510R	MEADOW LANE 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2103CB	MEADOW LANE 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2104CB	MEADOW LANE 2104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2105859335	MEADOW LANE 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2105CB	MEADOW LANE 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2106970936	MEADOW LANE 2106	0.844784083		Contra Costa	Tier 3	FALSE	TRUE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
MEADOW LANE 2106C537R	MEADOW LANE 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2106C558R	MEADOW LANE 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2106CB	MEADOW LANE 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 210793364	MEADOW LANE 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 210796222	MEADOW LANE 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2107C589R	MEADOW LANE 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2107CB	MEADOW LANE 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 210813902	MEADOW LANE 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 210856034	MEADOW LANE 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 210865456	MEADOW LANE 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 210890850	MEADOW LANE 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2108CB	MEADOW LANE 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2108PH401/2	MEADOW LANE 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2109CB	MEADOW LANE 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MEADOW LANE 2110CB	MEADOW LANE 2110	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
MENDOCINO 110131322	MENDOCINO 1101	4.714239422		Mendocino	Tier 2	TRUE	TRUE	TRUE
MENDOCINO 110137462	MENDOCINO 1101	2.037976308		Mendocino	Tier 2	FALSE	TRUE	TRUE
MENDOCINO 1101450	MENDOCINO 1101	5.224100532		Mendocino	Tier 3	TRUE	TRUE	TRUE
MENDOCINO 110148750	MENDOCINO 1101	17.97042405		Mendocino	Tier 3	TRUE	TRUE	TRUE
MENDOCINO 1101CB	MENDOCINO 1101	2.175848851		Mendocino	Tier 2	FALSE	TRUE	TRUE
MENDOCINO 1102CB	MENDOCINO 1102	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 110111038	MENDOTA 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 1101CB	MENDOTA 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 110212230	MENDOTA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 11023160	MENDOTA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 11023330	MENDOTA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 110237442	MENDOTA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 110249344	MENDOTA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 1102514238	MENDOTA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 1102CB	MENDOTA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 110337432	MENDOTA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 110389538	MENDOTA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 110390290	MENDOTA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 1103CB	MENDOTA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 11043630	MENDOTA 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 11043810	MENDOTA 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 1104681764	MENDOTA 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENDOTA 1104CB	MENDOTA 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
MENLO 0401CB	MENLO 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 04029070	MENLO 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 0402CB	MENLO 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 040314383	MENLO 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 040365975	MENLO 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 0403CB	MENLO 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 0404CB	MENLO 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 11018908	MENLO 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 1101CB	MENLO 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 1102151590	MENLO 1102	0.818978719		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MENLO 1102154024	MENLO 1102	2.262416059		San Mateo	Tier 2	FALSE	TRUE	TRUE
MENLO 1102223286	MENLO 1102	0.931040943		San Mateo	Tier 2	FALSE	TRUE	FALSE
MENLO 1102331044	MENLO 1102	0.415936062		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MENLO 110235722	MENLO 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 1102362896	MENLO 1102	0.098019587		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MENLO 1102560798	MENLO 1102	9.083952255		San Mateo	Tier 2	FALSE	TRUE	TRUE
MENLO 110276134	MENLO 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 11028952	MENLO 1102	3.353210899		San Mateo	Tier 2	FALSE	TRUE	TRUE
MENLO 11029018	MENLO 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 11029092	MENLO 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 11029110	MENLO 1102	0.133529229		San Mateo	Non-HFTD	TRUE	TRUE	TRUE
MENLO 11029152	MENLO 1102	0.151702645		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 1102CB	MENLO 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 1102W80	MENLO 1102	11.62648066		San Mateo	Tier 3	FALSE	TRUE	TRUE
MENLO 11031721	MENLO 1103	7.08891427		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MENLO 110344283	MENLO 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MENLO 110358562	MENLO 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MENLO 11037902	MENLO 1103	0.067002464		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MENLO 11038512	MENLO 1103	16.68058198		San Mateo	Tier 2	FALSE	TRUE	TRUE
MENLO 1103866118	MENLO 1103	12.78828725		San Mateo	Tier 2	FALSE	TRUE	TRUE
MENLO 11038914	MENLO 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MENLO 11038982	MENLO 1103	4.648511938		San Mateo	Tier 2	FALSE	TRUE	TRUE
MENLO 11039096	MENLO 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MENLO 1103CB	MENLO 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 11049086	MENLO 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MENLO 1104CB	MENLO 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MERCED 110811130	MERCED 1108	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 1108149636	MERCED 1108	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 1108900772	MERCED 1108	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 110890500	MERCED 1108	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 110890510	MERCED 1108	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 110890520	MERCED 1108	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 1108CB	MERCED 1108	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 1114345460	MERCED 1114	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 11144320	MERCED 1114	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 1114777666	MERCED 1114	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 111490220	MERCED 1114	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 11149040	MERCED 1114	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 11149200	MERCED 1114	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 1114CB	MERCED 1114	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 1114CUS250088	MERCED 1114	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 1116237138	MERCED 1116	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 11164380	MERCED 1116	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 1116705950	MERCED 1116	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 1116CB	MERCED 1116	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 210111520	MERCED 2101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 2101449613	MERCED 2101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 21014710	MERCED 2101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 21017220	MERCED 2101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 210190270	MERCED 2101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 210190340	MERCED 2101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 2101CB	MERCED 2101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 2102453754	MERCED 2102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
MERCED 210247184	MERCED 2102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 210259150	MERCED 2102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 21026470	MERCED 2102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 21027050	MERCED 2102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 21029740	MERCED 2102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 21029970	MERCED 2102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED 2102CB	MERCED 2102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED FALLS 110222774	MERCED FALLS 1102	1.323374805		Mariposa	Tier 2	FALSE	TRUE	TRUE
MERCED FALLS 110238748	MERCED FALLS 1102	15.33694291		Tuolumne	Tier 2	FALSE	TRUE	FALSE
MERCED FALLS 11024000	MERCED FALLS 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED FALLS 1102482838	MERCED FALLS 1102	8.065966272		Mariposa	Tier 2	FALSE	TRUE	TRUE
MERCED FALLS 11027006	MERCED FALLS 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED FALLS 11027905	MERCED FALLS 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERCED FALLS 110285002	MERCED FALLS 1102	35.23096904		Mariposa	Tier 2	FALSE	TRUE	TRUE
MERCED FALLS 11029460	MERCED FALLS 1102	10.76633849		Mariposa	Tier 2	FALSE	TRUE	TRUE
MERCED FALLS 11029470	MERCED FALLS 1102	22.73767363		Tuolumne	Tier 2	FALSE	TRUE	TRUE
MERCED FALLS 1102CB	MERCED FALLS 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
MERIDIAN 11013002	MERIDIAN 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
MERIDIAN 11013044	MERIDIAN 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
MERIDIAN 11014373	MERIDIAN 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
MERIDIAN 110169484	MERIDIAN 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
MERIDIAN 1101CB	MERIDIAN 1101	0		Sutter	Non-HFTD	TRUE	TRUE	FALSE
MERIDIAN 11023502	MERIDIAN 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
MERIDIAN 110236928	MERIDIAN 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MERIDIAN 11024302	MERIDIAN 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MERIDIAN 110253048	MERIDIAN 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MERIDIAN 110263950	MERIDIAN 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
MERIDIAN 110288128	MERIDIAN 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
MERIDIAN 1102CB	MERIDIAN 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
MESA 11016111	MESA 1101	23.87044724		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
MESA 110187454	MESA 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1101CB	MESA 1101	12.59146535		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
MESA 1101M86	MESA 1101	12.54235834		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
MESA 1102CB	MESA 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1103126697	MESA 1103	0.962507841		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
MESA 1103198354	MESA 1103	8.067014471		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
MESA 1103206794	MESA 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1103236053	MESA 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 11038647	MESA 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1103CB	MESA 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1103M62	MESA 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1103M64	MESA 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1103M68	MESA 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1103M70	MESA 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1103M72	MESA 1103	0.945802814		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
MESA 1103M90	MESA 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1103M92	MESA 1103	0.014631281		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
MESA 1103Q18	MESA 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1104199586	MESA 1104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1104CB	MESA 1104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1104M08	MESA 1104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MESA 1104M40	MESA 1104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
METTLER 110936724	METTLER 1109	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
METTLER 110936726	METTLER 1109	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
METTLER 1109CB	METTLER 1109	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
METTLER 111063452	METTLER 1110	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
METTLER 11106420	METTLER 1110	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
METTLER 111086700	METTLER 1110	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
METTLER 1110CB	METTLER 1110	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MIDDLE RIVER 11015240	MIDDLE RIVER 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MIDDLE RIVER 110157494	MIDDLE RIVER 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MIDDLE RIVER 110158942	MIDDLE RIVER 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MIDDLE RIVER 1101CB	MIDDLE RIVER 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MIDDLE RIVER 110212902	MIDDLE RIVER 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MIDDLE RIVER 110292188	MIDDLE RIVER 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MIDDLE RIVER 1102CB	MIDDLE RIVER 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MIDDLE RIVER 110395572	MIDDLE RIVER 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MIDDLE RIVER 1103CB	MIDDLE RIVER 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MIDDLETOWN 1101128648	MIDDLETOWN 1101	0.614681267		Lake	Tier 3	FALSE	TRUE	TRUE
MIDDLETOWN 11011314	MIDDLETOWN 1101	0.905804907		Lake	Tier 3	FALSE	TRUE	TRUE
MIDDLETOWN 1101171414	MIDDLETOWN 1101	3.517217173		Lake	Tier 3	FALSE	TRUE	TRUE
MIDDLETOWN 1101352182	MIDDLETOWN 1101	2.129184899		Lake	Tier 3	FALSE	TRUE	TRUE
MIDDLETOWN 1101433160	MIDDLETOWN 1101	1.117970864		Lake	Tier 3	FALSE	TRUE	TRUE
MIDDLETOWN 1101439572	MIDDLETOWN 1101	1.168382458		Lake	Tier 2	TRUE	TRUE	TRUE
MIDDLETOWN 11014646	MIDDLETOWN 1101	23.58802122		Lake	Tier 3	FALSE	TRUE	TRUE
MIDDLETOWN 1101481876	MIDDLETOWN 1101	0.839776115		Lake	Tier 3	FALSE	TRUE	FALSE
MIDDLETOWN 1101548	MIDDLETOWN 1101	26.04392648		Lake	Tier 3	TRUE	TRUE	TRUE
MIDDLETOWN 1101614	MIDDLETOWN 1101	1.365585079		Lake	Tier 3	FALSE	TRUE	TRUE
MIDDLETOWN 1101644756	MIDDLETOWN 1101	14.82328229		Lake	Tier 3	TRUE	TRUE	TRUE
MIDDLETOWN 1101829164	MIDDLETOWN 1101	1.179231381		Lake	Tier 3	TRUE	TRUE	TRUE
MIDDLETOWN 1101851636	MIDDLETOWN 1101	0		Lake	Non-HFTD	TRUE	TRUE	FALSE
MIDDLETOWN 1101872796	MIDDLETOWN 1101	8.821250519		Lake	Tier 3	FALSE	TRUE	TRUE
MIDDLETOWN 1101932140	MIDDLETOWN 1101	0.521791561		Lake	Tier 2	TRUE	TRUE	TRUE
MIDDLETOWN 1101959140	MIDDLETOWN 1101	3.845128747		Lake	Tier 3	TRUE	TRUE	TRUE
MIDDLETOWN 1101CB	MIDDLETOWN 1101	0.167737795		Lake	Tier 2	TRUE	TRUE	TRUE
MIDDLETOWN 11021312	MIDDLETOWN 1102	9.816188051		Lake	Tier 2	TRUE	TRUE	TRUE
MIDDLETOWN 1102302610	MIDDLETOWN 1102	4.124818696		Lake	Tier 2	TRUE	TRUE	TRUE
MIDDLETOWN 1102414	MIDDLETOWN 1102	4.440547883		Lake	Tier 2	TRUE	TRUE	TRUE
MIDDLETOWN 1102620498	MIDDLETOWN 1102	3.24383243		Lake	Tier 2	TRUE	TRUE	TRUE
MIDDLETOWN 1102632616	MIDDLETOWN 1102	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
MIDDLETOWN 1102878	MIDDLETOWN 1102	1.902570122		Lake	Tier 3	TRUE	TRUE	TRUE
MIDDLETOWN 1102998	MIDDLETOWN 1102	14.66698375		Lake	Tier 2	TRUE	TRUE	TRUE
MIDDLETOWN 1102CB	MIDDLETOWN 1102	0.348220545		Lake	Tier 2	TRUE	TRUE	TRUE
MIDDLETOWN 1103248100	MIDDLETOWN 1103	14.657568		Lake	Tier 3	TRUE	TRUE	TRUE
MIDDLETOWN 1103762090	MIDDLETOWN 1103	5.419528709		Lake	Tier 3	TRUE	TRUE	TRUE
MIDDLETOWN 1103CB	MIDDLETOWN 1103	0.057738101		Lake	Tier 2	FALSE	TRUE	TRUE
MIDWAY 11011470	MIDWAY 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MIDWAY 1101389356	MIDWAY 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MIDWAY 1101894740	MIDWAY 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MIDWAY 1101CB	MIDWAY 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MIDWAY 11021401	MIDWAY 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
MIDWAY 11021482	MIDWAY 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MIDWAY 1102CB	MIDWAY 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MIDWAY 1103325718	MIDWAY 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MIDWAY 1103CB	MIDWAY 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MIDWAY 1103CUS2482	MIDWAY 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MIDWAY 11041497	MIDWAY 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MIDWAY 1104CB	MIDWAY 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 0401CB	MILLBRAE 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 040376176	MILLBRAE 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 0403CB	MILLBRAE 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 040475548	MILLBRAE 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 040479782	MILLBRAE 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 0404CB	MILLBRAE 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 1101135416	MILLBRAE 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 11018944	MILLBRAE 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 1101CB	MILLBRAE 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 11021033	MILLBRAE 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 1102CB	MILLBRAE 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 1103CB	MILLBRAE 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 1104217	MILLBRAE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 110453676	MILLBRAE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 11045521	MILLBRAE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 110465748	MILLBRAE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 110480106	MILLBRAE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 110482544	MILLBRAE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 1104CB	MILLBRAE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 1105CB	MILLBRAE 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 1106CB	MILLBRAE 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 11072030	MILLBRAE 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 1107CB	MILLBRAE 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 110810045	MILLBRAE 1108	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 1108341881	MILLBRAE 1108	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 1108639978	MILLBRAE 1108	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILLBRAE 1108CB	MILLBRAE 1108	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 1101CB	MILPITAS 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 1103CB	MILPITAS 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 1104CB	MILPITAS 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 1105CB	MILPITAS 1105	0.069549146		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MILPITAS 1106CB	MILPITAS 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 1108342498	MILPITAS 1108	0.0167576		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MILPITAS 1108819378	MILPITAS 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 1108CB	MILPITAS 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 110913377	MILPITAS 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 110962157	MILPITAS 1109	0.060308632		Alameda	Tier 2	FALSE	TRUE	FALSE
MILPITAS 1109903328	MILPITAS 1109	18.86649937		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MILPITAS 1109CB	MILPITAS 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 1109XR044	MILPITAS 1109	0.27368339		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MILPITAS 1109XR208	MILPITAS 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 1109XR370	MILPITAS 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 1109XR372	MILPITAS 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 1109XR374	MILPITAS 1109	0.171258667		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MILPITAS 1109XR524	MILPITAS 1109	10.57105704		Alameda	Tier 2	FALSE	TRUE	TRUE
MILPITAS 2110CB	MILPITAS 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 2110XR024	MILPITAS 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 2110XR276	MILPITAS 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 2110XR404	MILPITAS 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 2111CB	MILPITAS 2111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 2112CB	MILPITAS 2112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 2112XR040	MILPITAS 2112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 2113CB	MILPITAS 2113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MILPITAS 2114CB	MILPITAS 2114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MIRA VISTA 0401CB	MIRA VISTA 0401	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
MIRA VISTA 0403CB	MIRA VISTA 0403	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
MIRABEL 1101116	MIRABEL 1101	5.274671219		Sonoma	Tier 3	FALSE	TRUE	TRUE
MIRABEL 1101228	MIRABEL 1101	1.76703151		Sonoma	Tier 2	FALSE	TRUE	TRUE
MIRABEL 1101254	MIRABEL 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MIRABEL 1101298	MIRABEL 1101	12.52461586		Sonoma	Tier 3	FALSE	TRUE	TRUE
MIRABEL 11014859	MIRABEL 1101	1.869568099		Sonoma	Tier 3	FALSE	TRUE	TRUE
MIRABEL 1101688780	MIRABEL 1101	0.54450054		Sonoma	Tier 2	FALSE	TRUE	FALSE
MIRABEL 1101774276	MIRABEL 1101	4.960602888		Sonoma	Tier 3	FALSE	TRUE	TRUE
MIRABEL 1101831090	MIRABEL 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MIRABEL 1101CB	MIRABEL 1101	1.964333436		Sonoma	Tier 3	TRUE	TRUE	TRUE
MIRABEL 11022043	MIRABEL 1102	0.560615707		Sonoma	Tier 3	FALSE	TRUE	TRUE
MIRABEL 1102206	MIRABEL 1102	0.015053232		Sonoma	Tier 2	FALSE	TRUE	TRUE
MIRABEL 1102332	MIRABEL 1102	6.962159023		Sonoma	Tier 3	FALSE	TRUE	TRUE
MIRABEL 1102334	MIRABEL 1102	4.507634161		Sonoma	Tier 3	FALSE	TRUE	TRUE
MIRABEL 110238514	MIRABEL 1102	10.28902964		Sonoma	Tier 3	TRUE	TRUE	TRUE
MIRABEL 1102503000	MIRABEL 1102	4.462642845		Sonoma	Tier 3	FALSE	TRUE	TRUE
MIRABEL 1102503294	MIRABEL 1102	2.318286834		Sonoma	Tier 3	FALSE	TRUE	TRUE
MIRABEL 1102524356	MIRABEL 1102	1.355100394		Sonoma	Tier 2	FALSE	TRUE	FALSE
MIRABEL 110257840	MIRABEL 1102	4.581532537		Sonoma	Tier 3	TRUE	TRUE	TRUE
MIRABEL 110286326	MIRABEL 1102	0.560958467		Sonoma	Tier 2	FALSE	TRUE	FALSE
MIRABEL 1102976908	MIRABEL 1102	1.11513039		Sonoma	Tier 3	FALSE	TRUE	FALSE
MIRABEL 1102CB	MIRABEL 1102	0.143573861		Sonoma	Tier 2	FALSE	TRUE	TRUE
MISSION (X) 0401CB	MISSION (X) 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1102CB	MISSION (X) 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1104CB	MISSION (X) 1104	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1107CB	MISSION (X) 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 110812135	MISSION (X) 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 11083555	MISSION (X) 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 110877660	MISSION (X) 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1108991594	MISSION (X) 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1108CB	MISSION (X) 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 110969980	MISSION (X) 1109	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1109CB	MISSION (X) 1109	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 111012451	MISSION (X) 1110	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
MISSION (X) 111014601	MISSION (X) 1110	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 111090264	MISSION (X) 1110	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1110CB	MISSION (X) 1110	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1111CB	MISSION (X) 1111	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 111342336	MISSION (X) 1113	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
MISSION (X) 111384198	MISSION (X) 1113	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1113CB	MISSION (X) 1113	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1116265740	MISSION (X) 1116	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
MISSION (X) 111639048	MISSION (X) 1116	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 111641380	MISSION (X) 1116	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 111678144	MISSION (X) 1116	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1116CB	MISSION (X) 1116	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1118CB	MISSION (X) 1118	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1120CB	MISSION (X) 1120	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 112441340	MISSION (X) 1124	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1124CB	MISSION (X) 1124	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1125293336	MISSION (X) 1125	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1125CB	MISSION (X) 1125	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1127CB	MISSION (X) 1127	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 112899358	MISSION (X) 1128	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MISSION (X) 1128CB	MISSION (X) 1128	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
MIWUK 170110600	MIWUK 1701	11.3418041		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 170111800	MIWUK 1701	9.506866614		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 1701176798	MIWUK 1701	2.953805247		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 1701360164	MIWUK 1701	6.897855608		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 170153038	MIWUK 1701	6.641803486		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 1701767890	MIWUK 1701	11.81431888		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 170179118	MIWUK 1701	0.019359657		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 170193062	MIWUK 1701	7.804616063		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 1701953336	MIWUK 1701	11.62389548		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 1701992162	MIWUK 1701	3.731277169		Tuolumne	Tier 3	FALSE	TRUE	FALSE
MIWUK 17021808	MIWUK 1702	1.736587113		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 170236888	MIWUK 1702	0.592154276		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 170238218	MIWUK 1702	14.4138535		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 170247143	MIWUK 1702	4.855481281		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 1702531976	MIWUK 1702	1.197187156		Tuolumne	Tier 3	FALSE	TRUE	FALSE
MIWUK 1702576504	MIWUK 1702	4.0934091		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 1702667248	MIWUK 1702	2.729991515		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 17028130	MIWUK 1702	9.668934568		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 1702823548	MIWUK 1702	21.95527573		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 17029270	MIWUK 1702	5.737892698		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 1702CB	MIWUK 1702	6.24965512		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MIWUK 1702S2247	MIWUK 1702	1.528270239		Tuolumne	Tier 3	FALSE	TRUE	TRUE
MOLINO 1101128824	MOLINO 1101	1.652529801		Sonoma	Tier 2	FALSE	TRUE	TRUE
MOLINO 1101152	MOLINO 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 1101277292	MOLINO 1101	1.44385705		Sonoma	Tier 2	FALSE	TRUE	FALSE
MOLINO 1101322	MOLINO 1101	13.79962892		Sonoma	Tier 3	FALSE	TRUE	TRUE
MOLINO 1101324	MOLINO 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 1101338	MOLINO 1101	6.900565026		Sonoma	Tier 2	FALSE	TRUE	TRUE
MOLINO 11014900	MOLINO 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 11015034	MOLINO 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 11015042	MOLINO 1101	5.854600021		Sonoma	Tier 2	FALSE	TRUE	TRUE
MOLINO 1101600112	MOLINO 1101	0.691194918		Sonoma	Tier 2	FALSE	TRUE	TRUE
MOLINO 1101891	MOLINO 1101	3.289740404		Sonoma	Tier 3	FALSE	TRUE	TRUE
MOLINO 1101CB	MOLINO 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 1102104	MOLINO 1102	21.31274604		Sonoma	Tier 3	FALSE	TRUE	TRUE
MOLINO 1102111666	MOLINO 1102	0.046243629		Sonoma	Tier 2	FALSE	TRUE	TRUE
MOLINO 1102141782	MOLINO 1102	3.453885538		Sonoma	Tier 2	FALSE	TRUE	TRUE
MOLINO 1102178	MOLINO 1102	12.05716256		Sonoma	Tier 3	TRUE	TRUE	TRUE
MOLINO 1102318	MOLINO 1102	25.95643659		Sonoma	Tier 3	FALSE	TRUE	TRUE
MOLINO 1102344	MOLINO 1102	0.98855588		Sonoma	Tier 2	FALSE	TRUE	TRUE
MOLINO 1102381468	MOLINO 1102	1.442187109		Sonoma	Tier 2	FALSE	TRUE	FALSE
MOLINO 1102384	MOLINO 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 110241392	MOLINO 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 1102485246	MOLINO 1102	3.555487518		Sonoma	Tier 2	FALSE	TRUE	TRUE
MOLINO 1102495692	MOLINO 1102	16.1474275		Sonoma	Tier 3	FALSE	TRUE	TRUE
MOLINO 1102509516	MOLINO 1102	0.279723527		Sonoma	Tier 3	FALSE	TRUE	FALSE
MOLINO 110251788	MOLINO 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 1102535	MOLINO 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 1102613993	MOLINO 1102	2.084344935		Sonoma	Tier 3	FALSE	TRUE	TRUE
MOLINO 1102658	MOLINO 1102	10.77906531		Sonoma	Tier 3	FALSE	TRUE	FALSE
MOLINO 110266006	MOLINO 1102	9.018257734		Sonoma	Tier 3	FALSE	TRUE	TRUE
MOLINO 110276066	MOLINO 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 110279306	MOLINO 1102	3.196527463		Sonoma	Tier 3	FALSE	TRUE	FALSE
MOLINO 1102905231	MOLINO 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 1102CB	MOLINO 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 110313219	MOLINO 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 11034676	MOLINO 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 11034682	MOLINO 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 11034894	MOLINO 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 110381008	MOLINO 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 1103CB	MOLINO 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 1104186	MOLINO 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 1104368158	MOLINO 1104	2.378298286		Sonoma	Tier 2	FALSE	TRUE	TRUE
MOLINO 1104378	MOLINO 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 1104380	MOLINO 1104	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
MOLINO 1104468882	MOLINO 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MOLINO 1104CB	MOLINO 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONARCH 0401CB	MONARCH 0401	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MONARCH 0402CB	MONARCH 0402	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MONARCH 0403CB	MONARCH 0403	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MONROE 1104CB	MONROE 1104	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
MONROE 1105588	MONROE 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONROE 1105590	MONROE 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONROE 1105602	MONROE 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONROE 1105919	MONROE 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONROE 1105CB	MONROE 1105	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
MONROE 110636930	MONROE 1106	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONROE 110646702	MONROE 1106	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONROE 110681758	MONROE 1106	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONROE 110693710	MONROE 1106	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONROE 110694986	MONROE 1106	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONROE 1106CB	MONROE 1106	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONROE 210278440	MONROE 2102	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
MONROE 210290988	MONROE 2102	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
MONROE 2102CB	MONROE 2102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONROE 2103408	MONROE 2103	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
MONROE 2103848530	MONROE 2103	0.340709527		Sonoma	Tier 3	TRUE	TRUE	TRUE
MONROE 210392868	MONROE 2103	0.113844219		Sonoma	Tier 3	TRUE	TRUE	TRUE
MONROE 2103CB	MONROE 2103	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
MONROE 2107380760	MONROE 2107	0.610219685		Sonoma	Tier 3	TRUE	TRUE	TRUE
MONROE 2107434	MONROE 2107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONROE 210765424	MONROE 2107	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
MONROE 210781174	MONROE 2107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONROE 2107CB	MONROE 2107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
MONTAGUE 2101CB	MONTAGUE 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MONTAGUE 2102CB	MONTAGUE 2102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MONTAGUE 2103CB	MONTAGUE 2103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MONTAGUE 2104CB	MONTAGUE 2104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MONTAGUE 2105CB	MONTAGUE 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MONTAGUE 2106CB	MONTAGUE 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MONTAGUE 2108CB	MONTAGUE 2108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MONTAGUE 2109CB	MONTAGUE 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MONTE RIO 1111140	MONTE RIO 1111	2.580087382		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1111240	MONTE RIO 1111	5.798647069		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1111256	MONTE RIO 1111	7.259400888		Sonoma	Tier 3	TRUE	TRUE	TRUE
MONTE RIO 1111292	MONTE RIO 1111	13.17254413		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 111137520	MONTE RIO 1111	5.575762184		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1111506	MONTE RIO 1111	1.283994553		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 111159046	MONTE RIO 1111	3.277677641		Sonoma	Tier 2	FALSE	TRUE	FALSE
MONTE RIO 111164758	MONTE RIO 1111	10.48473371		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1111969182	MONTE RIO 1111	7.39312983		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1111CB	MONTE RIO 1111	0.255011539		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1112120	MONTE RIO 1112	5.950485846		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1112212	MONTE RIO 1112	1.386618435		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1112387984	MONTE RIO 1112	0.450680413		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 11125040	MONTE RIO 1112	5.812826591		Sonoma	Tier 3	TRUE	TRUE	TRUE
MONTE RIO 111264682	MONTE RIO 1112	1.772179645		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1112938174	MONTE RIO 1112	0.777273859		Sonoma	Tier 3	FALSE	TRUE	FALSE
MONTE RIO 1112CB	MONTE RIO 1112	3.525121252		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 11131067	MONTE RIO 1113	0.812552667		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 11131313	MONTE RIO 1113	1.240354689		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1113180	MONTE RIO 1113	1.96347304		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 11131989	MONTE RIO 1113	0.742658637		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1113202	MONTE RIO 1113	5.267545515		Sonoma	Tier 3	FALSE	TRUE	FALSE
MONTE RIO 1113250	MONTE RIO 1113	1.240374515		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1113320	MONTE RIO 1113	3.960128261		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1113346	MONTE RIO 1113	10.00112577		Sonoma	Tier 3	TRUE	TRUE	TRUE
MONTE RIO 11133970	MONTE RIO 1113	7.26548216		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1113477	MONTE RIO 1113	1.820948493		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 11135020	MONTE RIO 1113	4.483526629		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 11135024	MONTE RIO 1113	0.320777282		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 11135026	MONTE RIO 1113	1.847290745		Sonoma	Tier 3	FALSE	TRUE	FALSE
MONTE RIO 1113524	MONTE RIO 1113	6.218993593		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1113532	MONTE RIO 1113	0.524639726		Sonoma	Tier 3	FALSE	TRUE	FALSE
MONTE RIO 1113539938	MONTE RIO 1113	9.896037866		Sonoma	Tier 3	TRUE	TRUE	TRUE
MONTE RIO 1113652	MONTE RIO 1113	1.590789917		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTE RIO 1113678	MONTE RIO 1113	1.880688671		Sonoma	Tier 3	FALSE	TRUE	FALSE
MONTE RIO 1113CB	MONTE RIO 1113	0.047362701		Sonoma	Tier 3	FALSE	TRUE	TRUE
MONTICELLO 1101130412	MONTICELLO 1101	3.705420763		Napa	Tier 2	FALSE	TRUE	TRUE
MONTICELLO 11011589	MONTICELLO 1101	4.225149229		Napa	Tier 2	FALSE	TRUE	TRUE
MONTICELLO 11011780	MONTICELLO 1101	0.071662547		Napa	Tier 2	TRUE	TRUE	TRUE
MONTICELLO 1101256640	MONTICELLO 1101	8.916315615		Napa	Tier 2	TRUE	TRUE	TRUE
MONTICELLO 110137384	MONTICELLO 1101	9.207340398		Napa	Tier 2	TRUE	TRUE	TRUE
MONTICELLO 11014360	MONTICELLO 1101	6.414848173		Napa	Tier 2	TRUE	TRUE	TRUE
MONTICELLO 110152910	MONTICELLO 1101	2.193111128		Napa	Tier 2	TRUE	TRUE	TRUE
MONTICELLO 1101630	MONTICELLO 1101	4.44605902		Napa	Tier 2	TRUE	TRUE	TRUE
MONTICELLO 1101654	MONTICELLO 1101	2.17511021		Napa	Tier 2	TRUE	TRUE	TRUE
MONTICELLO 110165454	MONTICELLO 1101	0.923004851		Napa	Tier 2	FALSE	TRUE	TRUE
MONTICELLO 1101666	MONTICELLO 1101	10.70566893		Napa	Tier 2	TRUE	TRUE	TRUE
MONTICELLO 1101718	MONTICELLO 1101	25.97739014		Napa	Tier 2	TRUE	TRUE	TRUE
MONTICELLO 1101720	MONTICELLO 1101	6.754699255		Napa	Tier 2	TRUE	TRUE	TRUE
MONTICELLO 1101909026	MONTICELLO 1101	5.835611082		Napa	Tier 2	TRUE	TRUE	TRUE
MONTICELLO 110193384	MONTICELLO 1101	15.29998388		Napa	Tier 2	TRUE	TRUE	TRUE
MONTICELLO 1101CB	MONTICELLO 1101	0.59259322		Napa	Tier 2	TRUE	TRUE	TRUE
MORAGA 1101108540	MORAGA 1101	4.765008827		Contra Costa	Tier 3	FALSE	TRUE	TRUE
MORAGA 1101121620	MORAGA 1101	1.911370816		Contra Costa	Tier 3	FALSE	TRUE	TRUE
MORAGA 1101669542	MORAGA 1101	4.870199929		Contra Costa	Tier 3	FALSE	TRUE	TRUE
MORAGA 1101822414	MORAGA 1101	3.031866851		Contra Costa	Tier 3	FALSE	TRUE	TRUE
MORAGA 110183424	MORAGA 1101	1.442673966		Contra Costa	Tier 3	FALSE	TRUE	TRUE
MORAGA 1101CB	MORAGA 1101	5.124519045		Contra Costa	Tier 3	FALSE	TRUE	TRUE
MORAGA 1102161484	MORAGA 1102	0.104971222		Contra Costa	Tier 2	FALSE	TRUE	TRUE
MORAGA 1102221914	MORAGA 1102	0.320897127		Contra Costa	Tier 2	FALSE	TRUE	TRUE
MORAGA 1102CB	MORAGA 1102	4.588450357		Contra Costa	Tier 3	FALSE	TRUE	TRUE
MORAGA 110381146	MORAGA 1103	0.321153048		Contra Costa	Tier 2	FALSE	TRUE	TRUE
MORAGA 1103838598	MORAGA 1103	0.27762272		Contra Costa	Tier 2	FALSE	TRUE	FALSE
MORAGA 1103880425	MORAGA 1103	0.349168933		Contra Costa	Tier 2	FALSE	TRUE	FALSE
MORAGA 1103CB	MORAGA 1103	1.119311726		Contra Costa	Tier 3	FALSE	TRUE	TRUE
MORAGA 1103E510R	MORAGA 1103	0.049667608		Contra Costa	Tier 2	FALSE	TRUE	TRUE
MORAGA 1104750618	MORAGA 1104	0.887982414		Contra Costa	Tier 2	FALSE	TRUE	FALSE
MORAGA 1104CB	MORAGA 1104	9.237634732		Contra Costa	Tier 3	FALSE	TRUE	TRUE
MORAGA 1104N532R	MORAGA 1104	3.516555857		Contra Costa	Tier 2	FALSE	TRUE	TRUE
MORAGA 1105116034	MORAGA 1105	0.247161441		Contra Costa	Tier 3	FALSE	TRUE	TRUE
MORAGA 110531512	MORAGA 1105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MORAGA 1105553110	MORAGA 1105	5.647780249		Contra Costa	Tier 3	FALSE	TRUE	TRUE
MORAGA 1105829530	MORAGA 1105	1.643364386		Contra Costa	Tier 3	FALSE	TRUE	TRUE
MORAGA 1105CB	MORAGA 1105	0.165582753		Contra Costa	Tier 3	FALSE	TRUE	TRUE
MORAGA 1105E512R	MORAGA 1105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2104152774	MORGAN HILL 2104	6.327603257		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 2104CB	MORGAN HILL 2104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2104XR018	MORGAN HILL 2104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2105345099	MORGAN HILL 2105	0.143811982		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 210542348	MORGAN HILL 2105	1.187315316		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 2105CB	MORGAN HILL 2105	0.413441283		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 2105XR070	MORGAN HILL 2105	6.122683463		Santa Clara	Tier 3	FALSE	TRUE	TRUE
MORGAN HILL 2105XR152	MORGAN HILL 2105	7.7212471		Santa Clara	Tier 2	FALSE	TRUE	TRUE

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Circuit Segment List
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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
MORGAN HILL 2105XR176	MORGAN HILL 2105	21.17963293		Santa Clara	Tier 3	FALSE	TRUE	TRUE
MORGAN HILL 2105XR268	MORGAN HILL 2105	7.519809817		Santa Clara	Tier 3	FALSE	TRUE	FALSE
MORGAN HILL 2105XR312	MORGAN HILL 2105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2105XR494	MORGAN HILL 2105	0.270081105		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 2105XR564	MORGAN HILL 2105	5.403899692		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 2105XR578	MORGAN HILL 2105	0.14113633		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 2105XR602	MORGAN HILL 2105	0.0750621		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 210653992	MORGAN HILL 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2106CB	MORGAN HILL 2106	0.123092337		Santa Clara	Tier 2	TRUE	TRUE	TRUE
MORGAN HILL 2106XR002	MORGAN HILL 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2106XR224	MORGAN HILL 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2106XR324	MORGAN HILL 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2108CB	MORGAN HILL 2108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2108XR328	MORGAN HILL 2108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2109145998	MORGAN HILL 2109	2.420909271		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 21094145	MORGAN HILL 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2109CB	MORGAN HILL 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2109XR104	MORGAN HILL 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2109XR246	MORGAN HILL 2109	0.030661485		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 21103093	MORGAN HILL 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2110654924	MORGAN HILL 2110	2.173074243		Santa Clara	Tier 2	FALSE	TRUE	FALSE
MORGAN HILL 2110716210	MORGAN HILL 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2110814616	MORGAN HILL 2110	0.042071944		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 2110CB	MORGAN HILL 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2110XR164	MORGAN HILL 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2110XR326	MORGAN HILL 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2111123422	MORGAN HILL 2111	1.323703424		Santa Clara	Tier 3	FALSE	TRUE	FALSE
MORGAN HILL 2111419718	MORGAN HILL 2111	2.096938584		Santa Clara	Tier 3	FALSE	TRUE	TRUE
MORGAN HILL 2111919856	MORGAN HILL 2111	9.394704769		Santa Clara	Tier 3	FALSE	TRUE	TRUE
MORGAN HILL 2111997000	MORGAN HILL 2111	1.538471168		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 2111CB	MORGAN HILL 2111	0.252679589		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 2111XR292	MORGAN HILL 2111	10.82203715		Santa Clara	Tier 2	FALSE	TRUE	TRUE
MORGAN HILL 2111XR354	MORGAN HILL 2111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MORGAN HILL 2111XR398	MORGAN HILL 2111	26.65515955		Santa Clara	Tier 3	FALSE	TRUE	TRUE
MORMON 110112446	MORMON 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 110136806	MORMON 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 110149738	MORMON 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 110158084	MORMON 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 1101922274	MORMON 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 1101CB	MORMON 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 110210274	MORMON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 110210502	MORMON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 110214686	MORMON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 1102344118	MORMON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 1102465508	MORMON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 1102732178	MORMON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 1102773114	MORMON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 110277504	MORMON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 110296226	MORMON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 110296462	MORMON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 1102CB	MORMON 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 110365312	MORMON 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 110375226	MORMON 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORMON 1103CB	MORMON 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MORRO BAY 11013487	MORRO BAY 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MORRO BAY 1101424198	MORRO BAY 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MORRO BAY 110187487	MORRO BAY 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MORRO BAY 1101CB	MORRO BAY 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MORRO BAY 1101V64	MORRO BAY 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MORRO BAY 1101V66	MORRO BAY 1101	3.390996831		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
MORRO BAY 1101V68	MORRO BAY 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MORRO BAY 1101V70	MORRO BAY 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MORRO BAY 1101W02	MORRO BAY 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MORRO BAY 1101W04	MORRO BAY 1101	0.085313236		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
MORRO BAY 1101W06	MORRO BAY 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MORRO BAY 1101W20	MORRO BAY 1101	1.899967927		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
MORRO BAY 110247584	MORRO BAY 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MORRO BAY 1102868170	MORRO BAY 1102	9.001973176		San Luis Obispo	Tier 3	FALSE	TRUE	FALSE
MORRO BAY 1102CB	MORRO BAY 1102	3.439322034		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
MORRO BAY 1102V80	MORRO BAY 1102	0.029710522		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
MORRO BAY 1102V84	MORRO BAY 1102	0.127464975		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
MORRO BAY 1102V86	MORRO BAY 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MORRO BAY 1102W22	MORRO BAY 1102	2.325090133		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
MORRO BAY 1102W24	MORRO BAY 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
MORRO BAY 1102W34	MORRO BAY 1102	7.133651911		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
MOSHER 2104CB	MOSHER 2104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 210738444	MOSHER 2107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 210747888	MOSHER 2107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 21079614	MOSHER 2107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 2107CB	MOSHER 2107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 210865528	MOSHER 2108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 210869920	MOSHER 2108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 2108CB	MOSHER 2108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 211010062	MOSHER 2110	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 211010068	MOSHER 2110	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 21109174	MOSHER 2110	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 2110CB	MOSHER 2110	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 211112888	MOSHER 2111	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 21115266	MOSHER 2111	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOSHER 2111CB	MOSHER 2111	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN QUARRIES 21011102	MOUNTAIN QUARRIES 2101	43.1425439		El Dorado	Tier 2	FALSE	TRUE	TRUE
MOUNTAIN QUARRIES 21011130	MOUNTAIN QUARRIES 2101	19.96832267		El Dorado	Tier 3	FALSE	TRUE	TRUE
MOUNTAIN QUARRIES 2101117452	MOUNTAIN QUARRIES 2101	3.536199751		El Dorado	Tier 2	FALSE	TRUE	FALSE
MOUNTAIN QUARRIES 21011180	MOUNTAIN QUARRIES 2101	12.95874354		El Dorado	Tier 3	FALSE	TRUE	TRUE
MOUNTAIN QUARRIES 21011184	MOUNTAIN QUARRIES 2101	11.4106928		El Dorado	Tier 3	FALSE	TRUE	TRUE
MOUNTAIN QUARRIES 21011346	MOUNTAIN QUARRIES 2101	27.15728066		El Dorado	Tier 2	FALSE	TRUE	TRUE
MOUNTAIN QUARRIES 21011350	MOUNTAIN QUARRIES 2101	21.94762831		El Dorado	Tier 2	FALSE	TRUE	TRUE
MOUNTAIN QUARRIES 21012422	MOUNTAIN QUARRIES 2101	8.558109489		El Dorado	Tier 2	FALSE	TRUE	TRUE
MOUNTAIN QUARRIES 21012504	MOUNTAIN QUARRIES 2101	25.29540094		El Dorado	Tier 2	FALSE	TRUE	TRUE
MOUNTAIN QUARRIES 210135466	MOUNTAIN QUARRIES 2101	7.294419902		El Dorado	Tier 2	FALSE	TRUE	TRUE
MOUNTAIN QUARRIES 2101486682	MOUNTAIN QUARRIES 2101	0.116290668		El Dorado	Tier 2	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
MOUNTAIN QUARRIES 210151584	MOUNTAIN QUARRIES 2101	18.34843589		El Dorado	Tier 2	FALSE	TRUE	FALSE
MOUNTAIN QUARRIES 21016953	MOUNTAIN QUARRIES 2101	5.525068259		El Dorado	Tier 2	FALSE	TRUE	TRUE
MOUNTAIN QUARRIES 210192474	MOUNTAIN QUARRIES 2101	15.25498901		El Dorado	Tier 3	FALSE	TRUE	TRUE
MOUNTAIN QUARRIES 2101979598	MOUNTAIN QUARRIES 2101	3.692351458		El Dorado	Tier 2	FALSE	TRUE	TRUE
MOUNTAIN QUARRIES 2101CB	MOUNTAIN QUARRIES 2101	0.052998763		El Dorado	Tier 2	FALSE	TRUE	TRUE
MOUNTAIN VIEW 110251642	MOUNTAIN VIEW 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1102CB	MOUNTAIN VIEW 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1102LM32	MOUNTAIN VIEW 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1102LM80	MOUNTAIN VIEW 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1103CB	MOUNTAIN VIEW 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 110460076	MOUNTAIN VIEW 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1104CB	MOUNTAIN VIEW 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1104LM26	MOUNTAIN VIEW 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 110560056	MOUNTAIN VIEW 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 110560110	MOUNTAIN VIEW 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1105CB	MOUNTAIN VIEW 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1106CB	MOUNTAIN VIEW 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1106LM82	MOUNTAIN VIEW 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 11073225	MOUNTAIN VIEW 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1107CB	MOUNTAIN VIEW 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1107LM06	MOUNTAIN VIEW 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1107LM30	MOUNTAIN VIEW 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 110860022	MOUNTAIN VIEW 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1108CB	MOUNTAIN VIEW 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1108LV12	MOUNTAIN VIEW 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1109CB	MOUNTAIN VIEW 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1109LM58	MOUNTAIN VIEW 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1110CB	MOUNTAIN VIEW 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 111160078	MOUNTAIN VIEW 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1111CB	MOUNTAIN VIEW 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1112CB	MOUNTAIN VIEW 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 111360060	MOUNTAIN VIEW 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 111360130	MOUNTAIN VIEW 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1113CB	MOUNTAIN VIEW 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1114CB	MOUNTAIN VIEW 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MOUNTAIN VIEW 1114LM12	MOUNTAIN VIEW 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1101CB	MT EDEN 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1101MR112	MT EDEN 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1101MR113	MT EDEN 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1101MR618	MT EDEN 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 110211056	MT EDEN 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 110211986	MT EDEN 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1102CB	MT EDEN 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1103CB	MT EDEN 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1103MR643	MT EDEN 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1103MR808	MT EDEN 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1104624046	MT EDEN 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1104CB	MT EDEN 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1105CB	MT EDEN 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 110681924	MT EDEN 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1106CB	MT EDEN 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1106MR222	MT EDEN 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1106MR652	MT EDEN 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1106MR668	MT EDEN 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1107CB	MT EDEN 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1107MR138	MT EDEN 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1107MR608	MT EDEN 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1108CB	MT EDEN 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1108MR216	MT EDEN 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1108MR481	MT EDEN 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1109CB	MT EDEN 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1109MR206	MT EDEN 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1109MR237	MT EDEN 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1109MR523	MT EDEN 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1110CB	MT EDEN 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1110MR200	MT EDEN 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1111CB	MT EDEN 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1112CB	MT EDEN 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1112MR246	MT EDEN 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1112MR364	MT EDEN 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1112MR365	MT EDEN 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1112MR537	MT EDEN 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1112MR538	MT EDEN 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1113CB	MT EDEN 1113	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
MT EDEN 1114CB	MT EDEN 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NAPA 11021360	NAPA 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 11025039	NAPA 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 1102561208	NAPA 1102	0.268578382		Napa	Tier 2	TRUE	TRUE	TRUE
NAPA 1102710	NAPA 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 1102942	NAPA 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 1102CB	NAPA 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 110349050	NAPA 1103	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 1103CB	NAPA 1103	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 110549856	NAPA 1105	0		Napa	Non-HFTD	TRUE	TRUE	FALSE
NAPA 1105CB	NAPA 1105	0		Napa	Non-HFTD	TRUE	TRUE	FALSE
NAPA 1106CB	NAPA 1106	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 1109700752	NAPA 1109	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 1109CB	NAPA 1109	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 111038966	NAPA 1110	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 111048232	NAPA 1110	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 111069632	NAPA 1110	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 1110712	NAPA 1110	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 1110944	NAPA 1110	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 1110CB	NAPA 1110	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 11121302	NAPA 1112	7.442201958		Napa	Tier 2	TRUE	TRUE	TRUE
NAPA 1112315244	NAPA 1112	0.229554007		Napa	Tier 2	TRUE	TRUE	TRUE
NAPA 1112850068	NAPA 1112	9.37452389		Napa	Tier 2	FALSE	TRUE	TRUE
NAPA 111289474	NAPA 1112	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
NAPA 1112919436	NAPA 1112	0.676999185		Napa	Tier 2	FALSE	TRUE	TRUE
NAPA 1112943158	NAPA 1112	1.520467541		Napa	Tier 2	FALSE	TRUE	TRUE
NAPA 1112CB	NAPA 1112	0		Napa	Non-HFTD	FALSE	FALSE	FALSE

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Circuit Segment List
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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
NARROWS 21011202	NARROWS 2101	45.53969108		Yuba	Tier 2	FALSE	TRUE	TRUE
NARROWS 2101CB	NARROWS 2101	15.90979229		Yuba	Tier 2	TRUE	TRUE	TRUE
NARROWS 21022220	NARROWS 2102	27.18136424		Nevada	Tier 2	FALSE	TRUE	TRUE
NARROWS 21022718	NARROWS 2102	0.203118923		Nevada	Tier 2	FALSE	TRUE	TRUE
NARROWS 21022728	NARROWS 2102	17.26579898		Nevada	Tier 2	FALSE	TRUE	TRUE
NARROWS 210242584	NARROWS 2102	0		Nevada	Non-HFTD	FALSE	FALSE	FALSE
NARROWS 210248484	NARROWS 2102	41.77424588		Nevada	Tier 2	TRUE	TRUE	TRUE
NARROWS 210276952	NARROWS 2102	2.165110154		Nevada	Tier 2	FALSE	TRUE	TRUE
NARROWS 2102CB	NARROWS 2102	5.079985298		Nevada	Tier 2	FALSE	TRUE	TRUE
NARROWS 2104CB	NARROWS 2104	0.002840906		Nevada	Tier 2	FALSE	TRUE	TRUE
NARROWS 21052216	NARROWS 2105	56.80326306		Nevada	Tier 2	TRUE	TRUE	TRUE
NARROWS 21052228	NARROWS 2105	20.41767887		Nevada	Tier 2	FALSE	TRUE	FALSE
NARROWS 21052426	NARROWS 2105	7.927080868		Nevada	Tier 2	FALSE	TRUE	TRUE
NARROWS 21052748	NARROWS 2105	13.20989823		Nevada	Tier 2	TRUE	TRUE	TRUE
NARROWS 210551582	NARROWS 2105	25.23428716		Nevada	Tier 2	FALSE	TRUE	FALSE
NARROWS 21057203	NARROWS 2105	17.89548321		Nevada	Tier 2	FALSE	TRUE	TRUE
NARROWS 2105CB	NARROWS 2105	35.24724309		Nevada	Tier 2	FALSE	TRUE	TRUE
NARROWS PH 1151CB	NARROWS PH 1151	0.197750046		Nevada	Tier 2	TRUE	TRUE	TRUE
NEW HOPE 110111623	NEW HOPE 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
NEW HOPE 11019796	NEW HOPE 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
NEW HOPE 1101CB	NEW HOPE 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
NEW HOPE 11021284	NEW HOPE 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
NEW HOPE 11021286	NEW HOPE 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
NEW HOPE 110257150	NEW HOPE 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
NEW HOPE 1102CB	NEW HOPE 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1101CB	NEWARK 12KV 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1102CB	NEWARK 12KV 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 11034162	NEWARK 12KV 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1103CB	NEWARK 12KV 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1103MR247	NEWARK 12KV 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1103MR823	NEWARK 12KV 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1104CB	NEWARK 12KV 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1105CB	NEWARK 12KV 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1106CB	NEWARK 12KV 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1106MR118	NEWARK 12KV 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1106MR642	NEWARK 12KV 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 11079408	NEWARK 12KV 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1107CB	NEWARK 12KV 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1107MR240	NEWARK 12KV 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1107MR754	NEWARK 12KV 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 12KV 1108CB	NEWARK 12KV 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2102CB	NEWARK 21KV 2102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2102MR223	NEWARK 21KV 2102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 210348722	NEWARK 21KV 2103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2103906	NEWARK 21KV 2103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2103CB	NEWARK 21KV 2103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2103MR116	NEWARK 21KV 2103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2103MR128	NEWARK 21KV 2103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2104863090	NEWARK 21KV 2104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2104CB	NEWARK 21KV 2104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2104LR562	NEWARK 21KV 2104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2105CB	NEWARK 21KV 2105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2105MR826	NEWARK 21KV 2105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 21077972	NEWARK 21KV 2107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2107CB	NEWARK 21KV 2107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2107MR111	NEWARK 21KV 2107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2107MR494	NEWARK 21KV 2107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2107MR595	NEWARK 21KV 2107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2108CB	NEWARK 21KV 2108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2108MR117	NEWARK 21KV 2108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2109CB	NEWARK 21KV 2109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2110CB	NEWARK 21KV 2110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWARK 21KV 2111CB	NEWARK 21KV 2111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NEWBURG 11313446	NEWBURG 1131	0.024503502		Humboldt	Tier 2	FALSE	TRUE	TRUE
NEWBURG 113137512	NEWBURG 1131	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
NEWBURG 113190242	NEWBURG 1131	3.658346024		Humboldt	Tier 2	FALSE	TRUE	FALSE
NEWBURG 113190644	NEWBURG 1131	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
NEWBURG 1131CB	NEWBURG 1131	1.98763568		Humboldt	Tier 2	FALSE	TRUE	TRUE
NEWBURG 11322074	NEWBURG 1132	0.910222664		Humboldt	Tier 2	FALSE	TRUE	TRUE
NEWBURG 113237494	NEWBURG 1132	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
NEWBURG 11326576	NEWBURG 1132	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
NEWBURG 1132665674	NEWBURG 1132	0.376190809		Humboldt	Tier 2	FALSE	TRUE	FALSE
NEWBURG 11326982	NEWBURG 1132	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
NEWBURG 113277894	NEWBURG 1132	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
NEWBURG 1132CB	NEWBURG 1132	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
NEWBURG 113397612	NEWBURG 1133	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
NEWBURG 1133CB	NEWBURG 1133	2.380283633		Humboldt	Tier 2	FALSE	TRUE	FALSE
NEWHALL 110911510	NEWHALL 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
NEWHALL 110912150	NEWHALL 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
NEWHALL 11096000	NEWHALL 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
NEWHALL 1109658906	NEWHALL 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
NEWHALL 1109CB	NEWHALL 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
NEWHALL 1109CUS5328	NEWHALL 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
NEWHALL 1111545410	NEWHALL 1111	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
NEWHALL 11115960	NEWHALL 1111	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
NEWHALL 1111CB	NEWHALL 1111	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
NEWHALL 1111CUS9465	NEWHALL 1111	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
NEWMAN 11011584	NEWMAN 1101	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
NEWMAN 110190300	NEWMAN 1101	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
NEWMAN 1101CB	NEWMAN 1101	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
NEWMAN 110290410	NEWMAN 1102	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
NEWMAN 1102CB	NEWMAN 1102	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
NEWMAN 110542128	NEWMAN 1105	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
NEWMAN 110590430	NEWMAN 1105	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
NEWMAN 110590460	NEWMAN 1105	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
NEWMAN 110590470	NEWMAN 1105	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
NEWMAN 1105CB	NEWMAN 1105	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
NEWMAN 110610800	NEWMAN 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
NEWMAN 11069140	NEWMAN 1106	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
NEWMAN 1106CB	NEWMAN 1106	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
NORCO 11011963	NORCO 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
NORCO 1101309854	NORCO 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
NORCO 11013938	NORCO 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
NORCO 11013965	NORCO 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
NORCO 1101CB	NORCO 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
NORCO 1102CB	NORCO 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
NORD 11032478	NORD 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NORD 11032548	NORD 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NORD 110334040	NORD 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NORD 1103CB	NORD 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NORD 11042202	NORD 1104	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NORD 11042450	NORD 1104	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NORD 1104CB	NORD 1104	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
NORD 1105CB	NORD 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NORD 11062480	NORD 1106	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NORD 11063307	NORD 1106	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NORD 1106CB	NORD 1106	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NORIEGA 0401CB	NORIEGA 0401	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
NORIEGA 0402CB	NORIEGA 0402	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
NORTECH 2107CB	NORTECH 2107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
NORTECH 2109CB	NORTECH 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
NORTECH 2109XR004	NORTECH 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
NORTECH 21107561	NORTECH 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
NORTECH 211079884	NORTECH 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
NORTECH 2110CB	NORTECH 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
NORTECH 2110XR036	NORTECH 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
NORTECH 2110XR362	NORTECH 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
NORTECH 2111CB	NORTECH 2111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
NORTH BRANCH 110111158	NORTH BRANCH 1101	10.87069475		Calaveras	Tier 2	FALSE	TRUE	TRUE
NORTH BRANCH 1101179382	NORTH BRANCH 1101	0.004755304		Calaveras	Tier 2	FALSE	TRUE	TRUE
NORTH BRANCH 1101207256	NORTH BRANCH 1101	0.063702116		Calaveras	Tier 2	FALSE	TRUE	TRUE
NORTH BRANCH 1101236904	NORTH BRANCH 1101	0.983666263		Calaveras	Tier 2	FALSE	TRUE	TRUE
NORTH BRANCH 1101750010	NORTH BRANCH 1101	0.079266228		Calaveras	Tier 2	FALSE	TRUE	TRUE
NORTH BRANCH 1101752104	NORTH BRANCH 1101	18.1961826		Calaveras	Tier 2	FALSE	TRUE	FALSE
NORTH BRANCH 1101769000	NORTH BRANCH 1101	0		Calaveras	Non-HFTD	FALSE	FALSE	FALSE
NORTH BRANCH 1101CB	NORTH BRANCH 1101	14.84475095		Calaveras	Tier 2	FALSE	TRUE	TRUE
NORTH BRANCH 1101TS1115	NORTH BRANCH 1101	17.52427		Calaveras	Tier 2	FALSE	TRUE	FALSE
NORTH DUBLIN 2101CB	NORTH DUBLIN 2101	1.375357465		Contra Costa	Tier 2	FALSE	TRUE	TRUE
NORTH DUBLIN 2101MR333	NORTH DUBLIN 2101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NORTH DUBLIN 2101MR765	NORTH DUBLIN 2101	0.029406065		Contra Costa	Tier 2	FALSE	TRUE	TRUE
NORTH DUBLIN 2103248212	NORTH DUBLIN 2103	16.45832265		Contra Costa	Tier 2	FALSE	TRUE	TRUE
NORTH DUBLIN 2103727584	NORTH DUBLIN 2103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
NORTH DUBLIN 2103CB	NORTH DUBLIN 2103	2.188180811		Alameda	Tier 2	FALSE	TRUE	TRUE
NORTH TOWER 11024153	NORTH TOWER 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NORTH TOWER 11028964	NORTH TOWER 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NORTH TOWER 110291736	NORTH TOWER 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NORTH TOWER 110291992	NORTH TOWER 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NORTH TOWER 110293010	NORTH TOWER 1102	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
NORTH TOWER 110295588	NORTH TOWER 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NORTH TOWER 1102CB	NORTH TOWER 1102	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
NORTH TOWER 1103CB	NORTH TOWER 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NORTH TOWER 11044071	NORTH TOWER 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NORTH TOWER 1104636605	NORTH TOWER 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NORTH TOWER 110470732	NORTH TOWER 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NORTH TOWER 110477646	NORTH TOWER 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NORTH TOWER 1104784	NORTH TOWER 1104	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
NORTH TOWER 1104CB	NORTH TOWER 1104	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
NORTH TOWER 1108780701	NORTH TOWER 1108	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NORTH TOWER 1108993638	NORTH TOWER 1108	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NORTH TOWER 1108CB	NORTH TOWER 1108	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NORTH TOWER 2101CB	NORTH TOWER 2101	0.519345037		Solano	Tier 2	TRUE	TRUE	FALSE
NORTH TOWER 2104CB	NORTH TOWER 2104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
NOTRE DAME 1101CB	NOTRE DAME 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NOTRE DAME 11022038	NOTRE DAME 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NOTRE DAME 11022420	NOTRE DAME 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NOTRE DAME 110287268	NOTRE DAME 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NOTRE DAME 1102CB	NOTRE DAME 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NOTRE DAME 1103317782	NOTRE DAME 1103	0.567879955		Butte	Tier 2	TRUE	TRUE	TRUE
NOTRE DAME 1103407486	NOTRE DAME 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
NOTRE DAME 1103CB	NOTRE DAME 1103	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
NOTRE DAME 1104176446	NOTRE DAME 1104	8.483474326		Butte	Tier 3	TRUE	TRUE	TRUE
NOTRE DAME 11042028	NOTRE DAME 1104	10.85489957		Butte	Tier 3	TRUE	TRUE	TRUE
NOTRE DAME 11042408	NOTRE DAME 1104	3.074168406		Butte	Tier 2	TRUE	TRUE	TRUE
NOTRE DAME 11042537	NOTRE DAME 1104	4.878419561		Butte	Tier 3	TRUE	TRUE	TRUE
NOTRE DAME 1104937710	NOTRE DAME 1104	0.404976933		Butte	Tier 2	FALSE	TRUE	FALSE
NOTRE DAME 1104CB	NOTRE DAME 1104	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
NOVATO 1101180632	NOVATO 1101	1.042167141		Marin	Tier 2	FALSE	TRUE	TRUE
NOVATO 1101405812	NOVATO 1101	0.16316639		Marin	Tier 2	FALSE	TRUE	TRUE
NOVATO 1101CB	NOVATO 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
NOVATO 1102CB	NOVATO 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
NOVATO 110387834	NOVATO 1103	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
NOVATO 1103CB	NOVATO 1103	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
NOVATO 11041282	NOVATO 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
NOVATO 1104422246	NOVATO 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
NOVATO 110449280	NOVATO 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
NOVATO 110455398	NOVATO 1104	2.998591862		Marin	Tier 2	FALSE	TRUE	TRUE
NOVATO 110456282	NOVATO 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
NOVATO 1104676060	NOVATO 1104	0.451200831		Marin	Tier 2	FALSE	TRUE	FALSE
NOVATO 1104889406	NOVATO 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
NOVATO 1104CB	NOVATO 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
OAK 0401772122	OAK 0401	1.469230541		Contra Costa	Tier 2	FALSE	TRUE	FALSE
OAK 0401CB	OAK 0401	0.018006655		Contra Costa	Tier 2	FALSE	TRUE	FALSE
OAK 0401R7252	OAK 0401	1.95789625		Contra Costa	Tier 2	FALSE	TRUE	FALSE
OAK PARK 0401CB	OAK PARK 0401	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
OAK PARK 0402CB	OAK PARK 0402	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
OAKHURST 110110090	OAKHURST 1101	43.7405103		Madera	Tier 3	FALSE	TRUE	TRUE
OAKHURST 1101352740	OAKHURST 1101	0.310886061		Madera	Tier 2	FALSE	TRUE	TRUE
OAKHURST 11015490	OAKHURST 1101	24.95513134		Madera	Tier 2	FALSE	TRUE	TRUE
OAKHURST 1101636114	OAKHURST 1101	20.1971083		Madera	Tier 2	TRUE	TRUE	FALSE
OAKHURST 1101910120	OAKHURST 1101	1.608330861		Madera	Tier 2	FALSE	TRUE	FALSE
OAKHURST 1101CB	OAKHURST 1101	0.121864542		Madera	Tier 3	FALSE	TRUE	TRUE
OAKHURST 1102204618	OAKHURST 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
OAKHURST 1102333062	OAKHURST 1102	0.130671979		Madera	Tier 2	FALSE	TRUE	TRUE
OAKHURST 1102455174	OAKHURST 1102	2.358010356		Madera	Tier 2	FALSE	TRUE	FALSE
OAKHURST 1102538042	OAKHURST 1102	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
OAKHURST 1102683678	OAKHURST 1102	7.513314219		Madera	Tier 2	FALSE	TRUE	TRUE
OAKHURST 1102963056	OAKHURST 1102	0.155744327		Madera	Tier 3	FALSE	TRUE	TRUE
OAKHURST 1102CB	OAKHURST 1102	2.344979335		Madera	Tier 3	FALSE	TRUE	TRUE
OAKHURST 110310140	OAKHURST 1103	16.59892366		Madera	Tier 3	FALSE	TRUE	TRUE
OAKHURST 110310190	OAKHURST 1103	8.383312391		Madera	Tier 3	TRUE	TRUE	TRUE
OAKHURST 110310570	OAKHURST 1103	9.597502771		Madera	Tier 3	FALSE	TRUE	TRUE
OAKHURST 110311900	OAKHURST 1103	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
OAKHURST 1103464622	OAKHURST 1103	9.184948021		Mariposa	Tier 3	FALSE	TRUE	TRUE
OAKHURST 11035120	OAKHURST 1103	6.067751214		Mariposa	Tier 3	FALSE	TRUE	TRUE
OAKHURST 11035480	OAKHURST 1103	16.80032275		Madera	Tier 3	TRUE	TRUE	TRUE
OAKHURST 110363334	OAKHURST 1103	20.77530333		Madera	Tier 3	FALSE	TRUE	FALSE
OAKHURST 1103719490	OAKHURST 1103	2.979282428		Mariposa	Tier 3	FALSE	TRUE	TRUE
OAKHURST 110377384	OAKHURST 1103	4.711396636		Madera	Tier 3	FALSE	TRUE	TRUE
OAKHURST 1103CB	OAKHURST 1103	27.75470659		Madera	Tier 3	FALSE	TRUE	TRUE
OAKLAND C 1108CB	OAKLAND C 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1109683734	OAKLAND C 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1109CB	OAKLAND C 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1109CR142	OAKLAND C 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1110CB	OAKLAND C 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1112CB	OAKLAND C 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1113818536	OAKLAND C 1113	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1113CB	OAKLAND C 1113	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1113CR418	OAKLAND C 1113	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1114CB	OAKLAND C 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1114CR196	OAKLAND C 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1114CR416	OAKLAND C 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1114CR440	OAKLAND C 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1115CB	OAKLAND C 1115	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1115CR162	OAKLAND C 1115	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1116CB	OAKLAND C 1116	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1116CR442	OAKLAND C 1116	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1117465596	OAKLAND C 1117	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1117CB	OAKLAND C 1117	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1118CB	OAKLAND C 1118	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1119CB	OAKLAND C 1119	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1119CR286	OAKLAND C 1119	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1120CB	OAKLAND C 1120	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1121829656	OAKLAND C 1121	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
OAKLAND C 1121CB	OAKLAND C 1121	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1132CB	OAKLAND C 1132	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1132CR138	OAKLAND C 1132	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1133CB	OAKLAND C 1133	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND C 1134CB	OAKLAND C 1134	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 0406235358	OAKLAND D 0406	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 0406CB	OAKLAND D 0406	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
OAKLAND D 0407CB	OAKLAND D 0407	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 0408CB	OAKLAND D 0408	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 0410CB	OAKLAND D 0410	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1101CB	OAKLAND D 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1102CB	OAKLAND D 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1103CB	OAKLAND D 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1104CB	OAKLAND D 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1105BR138	OAKLAND D 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1105BR306	OAKLAND D 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1105CB	OAKLAND D 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1106CB	OAKLAND D 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1106CR390	OAKLAND D 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1106CR396	OAKLAND D 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1107CB	OAKLAND D 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1110CB	OAKLAND D 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1110CR152	OAKLAND D 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1110CR154	OAKLAND D 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1110CR158	OAKLAND D 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1110CR160	OAKLAND D 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1110CR336	OAKLAND D 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1111BR268	OAKLAND D 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1111CB	OAKLAND D 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1112775616	OAKLAND D 1112	2.367353132		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND D 1112CB	OAKLAND D 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1112CR166	OAKLAND D 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1112CR192	OAKLAND D 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1112CR340	OAKLAND D 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1115CB	OAKLAND D 1115	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1116CB	OAKLAND D 1116	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1117CB	OAKLAND D 1117	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1130455660	OAKLAND D 1130	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1130CB	OAKLAND D 1130	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1131CB	OAKLAND D 1131	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1131CR430	OAKLAND D 1131	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1132CB	OAKLAND D 1132	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1133CB	OAKLAND D 1133	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1133CR290	OAKLAND D 1133	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1133CR292	OAKLAND D 1133	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1134745388	OAKLAND D 1134	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1134CB	OAKLAND D 1134	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND D 1202CB	OAKLAND D 1202	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND I 0401CB	OAKLAND I 0401	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
OAKLAND I 0402CB	OAKLAND I 0402	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 0401CB	OAKLAND J 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 0403CB	OAKLAND J 0403	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
OAKLAND J 0408CB	OAKLAND J 0408	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 0409CB	OAKLAND J 0409	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
OAKLAND J 1101CB	OAKLAND J 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1101CR348	OAKLAND J 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1101CR352	OAKLAND J 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1102126740	OAKLAND J 1102	0.987942421		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND J 1102159816	OAKLAND J 1102	0.14541704		Alameda	Tier 2	FALSE	TRUE	FALSE
OAKLAND J 1102208294	OAKLAND J 1102	3.435313988		Alameda	Tier 2	FALSE	TRUE	TRUE

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Circuit Segment List
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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
OAKLAND J 1102951816	OAKLAND J 1102	0.31793344		Alameda	Tier 2	FALSE	TRUE	FALSE
OAKLAND J 1102CB	OAKLAND J 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1102CR102	OAKLAND J 1102	0.204070445		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND J 1102CR250	OAKLAND J 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1102CR252	OAKLAND J 1102	0.920336236		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND J 1103CB	OAKLAND J 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1103CR436	OAKLAND J 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1103CR446	OAKLAND J 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1104CB	OAKLAND J 1104	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
OAKLAND J 1104CR382	OAKLAND J 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1104CR386	OAKLAND J 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1105153228	OAKLAND J 1105	0.194874593		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND J 1105CB	OAKLAND J 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1105CR132	OAKLAND J 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1105CR150	OAKLAND J 1105	0.207012747		Alameda	Tier 2	FALSE	TRUE	FALSE
OAKLAND J 1105CR256	OAKLAND J 1105	1.116320801		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND J 11067867	OAKLAND J 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1106CB	OAKLAND J 1106	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
OAKLAND J 1106CR164	OAKLAND J 1106	1.409948917		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND J 1106CR262	OAKLAND J 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1106CR330	OAKLAND J 1106	0.481830891		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND J 1108CB	OAKLAND J 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1108CR276	OAKLAND J 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1109CB	OAKLAND J 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1110CB	OAKLAND J 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1110CR272	OAKLAND J 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1111CB	OAKLAND J 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1111CR374	OAKLAND J 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1111CR378	OAKLAND J 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1112CB	OAKLAND J 1112	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
OAKLAND J 1112CR274	OAKLAND J 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1112CR360	OAKLAND J 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1112CR364	OAKLAND J 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1114CB	OAKLAND J 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1115CB	OAKLAND J 1115	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1116CB	OAKLAND J 1116	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1116CR328	OAKLAND J 1116	0.477908967		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND J 111710136	OAKLAND J 1117	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1117CB	OAKLAND J 1117	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
OAKLAND J 1117CR104	OAKLAND J 1117	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1117CR108	OAKLAND J 1117	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1117CR190	OAKLAND J 1117	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
OAKLAND J 11181846	OAKLAND J 1118	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1118CB	OAKLAND J 1118	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1118CR134	OAKLAND J 1118	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND J 1118CR198	OAKLAND J 1118	0.309741772		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND J 1118CR332	OAKLAND J 1118	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND K 1101462782	OAKLAND K 1101	0.191415446		Alameda	Tier 2	FALSE	TRUE	FALSE
OAKLAND K 1101CB	OAKLAND K 1101	0.161298358		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND K 1101CR170	OAKLAND K 1101	1.218190477		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1101CR172	OAKLAND K 1101	0.447345772		Alameda	Tier 2	FALSE	TRUE	FALSE
OAKLAND K 1101CR174	OAKLAND K 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND K 1101CR178	OAKLAND K 1101	0.332106518		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1101CR346	OAKLAND K 1101	0.210089041		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1102172340	OAKLAND K 1102	0.812388109		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 110217430	OAKLAND K 1102	1.455800667		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1102378866	OAKLAND K 1102	1.348845658		Contra Costa	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1102CB	OAKLAND K 1102	0.886805401		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1102CR014	OAKLAND K 1102	10.42834782		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1103CB	OAKLAND K 1103	0.429589738		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND K 1103CR188	OAKLAND K 1103	3.535695557		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1103CR202	OAKLAND K 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND K 1103CR422	OAKLAND K 1103	1.998116477		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND K 1104432850	OAKLAND K 1104	1.252577614		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1104CB	OAKLAND K 1104	1.482211548		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1104CR204	OAKLAND K 1104	4.013559769		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1104CR206	OAKLAND K 1104	1.767464443		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1104CR208	OAKLAND K 1104	2.378119805		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1104CR210	OAKLAND K 1104	2.785273868		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND K 1104CR326	OAKLAND K 1104	1.244964103		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND L 1101568018	OAKLAND L 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND L 1101829806	OAKLAND L 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND L 1101CB	OAKLAND L 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND L 1102CB	OAKLAND L 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND L 1103CB	OAKLAND L 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND L 1103CR144	OAKLAND L 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND L 1103CR300	OAKLAND L 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND L 1103CR302	OAKLAND L 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND L 1105CB	OAKLAND L 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND L 1106CB	OAKLAND L 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND L 1107CB	OAKLAND L 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND L 1108CB	OAKLAND L 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 0401CB	OAKLAND X 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 0402CB	OAKLAND X 0402	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 0402CR406	OAKLAND X 0402	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1101688681	OAKLAND X 1101	0.502403998		Alameda	Tier 2	FALSE	TRUE	FALSE
OAKLAND X 1101CB	OAKLAND X 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1101CR222	OAKLAND X 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1102CB	OAKLAND X 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1102CR118	OAKLAND X 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1102CR120	OAKLAND X 1102	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
OAKLAND X 1102CR122	OAKLAND X 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1103957271	OAKLAND X 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1103980100	OAKLAND X 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1103CB	OAKLAND X 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1103CR408	OAKLAND X 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1103CR410	OAKLAND X 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1103CR414	OAKLAND X 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1104391688	OAKLAND X 1104	1.256277934		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND X 1104438648	OAKLAND X 1104	0.39302855		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND X 1104645092	OAKLAND X 1104	0.903309888		Alameda	Tier 2	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
OAKLAND X 1104CB	OAKLAND X 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1104CR022	OAKLAND X 1104	3.943664343		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND X 1104CR101	OAKLAND X 1104	0.025184747		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND X 1104CR214	OAKLAND X 1104	2.856121395		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND X 1105184672	OAKLAND X 1105	1.47726238		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND X 1105528554	OAKLAND X 1105	0.799102108		Alameda	Tier 2	FALSE	TRUE	FALSE
OAKLAND X 1105CB	OAKLAND X 1105	0.035394226		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND X 1105CR242	OAKLAND X 1105	0.202164265		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND X 1106121588	OAKLAND X 1106	0.78821981		Alameda	Tier 2	FALSE	TRUE	FALSE
OAKLAND X 1106735592	OAKLAND X 1106	3.024108457		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND X 1106950688	OAKLAND X 1106	3.095891951		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND X 1106CB	OAKLAND X 1106	0.065646984		Alameda	Tier 2	FALSE	TRUE	TRUE
OAKLAND X 1106CR008	OAKLAND X 1106	4.371968471		Alameda	Tier 2	TRUE	TRUE	TRUE
OAKLAND X 1106CR020	OAKLAND X 1106	2.439553461		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND X 1106CR266	OAKLAND X 1106	1.160648819		Alameda	Tier 3	FALSE	TRUE	TRUE
OAKLAND X 1107CB	OAKLAND X 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1107CR424	OAKLAND X 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1107CR426	OAKLAND X 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1107CR428	OAKLAND X 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1109367084	OAKLAND X 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1109CB	OAKLAND X 1109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1110CB	OAKLAND X 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 111223947	OAKLAND X 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1112372506	OAKLAND X 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1112CB	OAKLAND X 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1112CR116	OAKLAND X 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1114CB	OAKLAND X 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1114CR124	OAKLAND X 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1115CB	OAKLAND X 1115	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1115CR216	OAKLAND X 1115	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1115CR218	OAKLAND X 1115	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1115CR294	OAKLAND X 1115	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1115CR296	OAKLAND X 1115	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OAKLAND X 1115CR298	OAKLAND X 1115	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
OCEAN 0401404230	OCEAN 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
OCEAN 0401794796	OCEAN 0401	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
OCEAN 040197445	OCEAN 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
OCEAN 0401CB	OCEAN 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
OCEAN 0402CB	OCEAN 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 1102749231	OCEANO 1102	5.482751689		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OCEANO 1102847440	OCEANO 1102	8.335983263		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
OCEANO 1102862544	OCEANO 1102	7.004436677		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
OCEANO 1102CB	OCEANO 1102	7.181051039		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
OCEANO 1102M60	OCEANO 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 1102V56	OCEANO 1102	9.13151464		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
OCEANO 110356012	OCEANO 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 1103597140	OCEANO 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 110376678	OCEANO 1103	0.057981066		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OCEANO 1103839302	OCEANO 1103	1.022377775		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
OCEANO 1103CB	OCEANO 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 1103V22	OCEANO 1103	0.031373891		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OCEANO 1104104102	OCEANO 1104	3.089711429		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
OCEANO 1104337754	OCEANO 1104	0.037820398		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OCEANO 1104891294	OCEANO 1104	12.52853537		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OCEANO 1104CB	OCEANO 1104	3.830617465		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
OCEANO 1104Q04	OCEANO 1104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 1104Q08	OCEANO 1104	12.39376156		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
OCEANO 1104Q10	OCEANO 1104	23.68133841		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OCEANO 1104Q12	OCEANO 1104	9.672611426		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
OCEANO 1104V36	OCEANO 1104	9.533275428		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OCEANO 1104V38	OCEANO 1104	10.83112263		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
OCEANO 1105CB	OCEANO 1105	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 1105V16	OCEANO 1105	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 1105V20	OCEANO 1105	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 1105V44	OCEANO 1105	0.609755366		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
OCEANO 1105V48	OCEANO 1105	0.051020257		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OCEANO 1106442156	OCEANO 1106	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 1106CB	OCEANO 1106	0.908388193		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OCEANO 1106V26	OCEANO 1106	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 1106V28	OCEANO 1106	1.052821606		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OCEANO 1106V32	OCEANO 1106	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 1108478286	OCEANO 1108	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 110856014	OCEANO 1108	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 1108597614	OCEANO 1108	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OCEANO 1108CB	OCEANO 1108	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
OILFIELDS 110241992	OILFIELDS 1102	2.732809381		Monterey	Non-HFTD	FALSE	FALSE	FALSE
OILFIELDS 110293788	OILFIELDS 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
OILFIELDS 1102CB	OILFIELDS 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
OILFIELDS 1103233424	OILFIELDS 1103	1.997549159		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
OILFIELDS 11032757	OILFIELDS 1103	2.494870597		Monterey	Tier 2	FALSE	TRUE	TRUE
OILFIELDS 1103370932	OILFIELDS 1103	0.313021963		Monterey	Tier 2	FALSE	TRUE	FALSE
OILFIELDS 1103441010	OILFIELDS 1103	0.074652614		Monterey	Tier 2	FALSE	TRUE	TRUE
OILFIELDS 1103451760	OILFIELDS 1103	0.061053613		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OILFIELDS 1103643162	OILFIELDS 1103	3.12495956		Monterey	Tier 2	FALSE	TRUE	TRUE
OILFIELDS 11037006	OILFIELDS 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
OILFIELDS 11037064	OILFIELDS 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
OILFIELDS 110383158	OILFIELDS 1103	17.57513958		Monterey	Tier 2	FALSE	TRUE	FALSE
OILFIELDS 110387034	OILFIELDS 1103	5.85835777		San Luis Obispo	Tier 2	TRUE	TRUE	FALSE
OILFIELDS 1103CB	OILFIELDS 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
OILFIELDS 1103N04	OILFIELDS 1103	0.377409423		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
OILFIELDS 1103N40	OILFIELDS 1103	1.333085079		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OILFIELDS 1103N42	OILFIELDS 1103	2.592855074		Monterey	Tier 2	FALSE	TRUE	TRUE
OILFIELDS 1103N44	OILFIELDS 1103	17.96338361		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OILFIELDS 1103N48	OILFIELDS 1103	47.0377782		Monterey	Tier 2	TRUE	TRUE	TRUE
OILFIELDS 1103N62	OILFIELDS 1103	5.672266615		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OILFIELDS 1103N64	OILFIELDS 1103	10.46462961		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
OLD RIVER 11013570	OLD RIVER 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 1101372950	OLD RIVER 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 11014577	OLD RIVER 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 1101479636	OLD RIVER 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 1101583328	OLD RIVER 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE

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Circuit Segment List
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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
OLD RIVER 1101CB	OLD RIVER 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 11021646	OLD RIVER 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 11023310	OLD RIVER 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 1102CB	OLD RIVER 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 11031647	OLD RIVER 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 11031653	OLD RIVER 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 11033851	OLD RIVER 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 1103596200	OLD RIVER 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 1103CB	OLD RIVER 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 11042771	OLD RIVER 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 110432858	OLD RIVER 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 11044169	OLD RIVER 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 1104639921	OLD RIVER 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 1104CB	OLD RIVER 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 110556702	OLD RIVER 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 1105684892	OLD RIVER 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 1105CB	OLD RIVER 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 1105CUS690	OLD RIVER 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLD RIVER 1105CUS9417	OLD RIVER 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
OLEMA 11011200	OLEMA 1101	2.844518365		Marin	Tier 2	FALSE	TRUE	TRUE
OLEMA 11011252	OLEMA 1101	4.048265469		Marin	Tier 2	FALSE	TRUE	FALSE
OLEMA 11011318	OLEMA 1101	8.256540667		Marin	Tier 2	FALSE	TRUE	TRUE
OLEMA 11011686	OLEMA 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
OLEMA 1101320	OLEMA 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
OLEMA 1101334	OLEMA 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
OLEMA 1101337220	OLEMA 1101	2.908994256		Marin	Tier 2	FALSE	TRUE	FALSE
OLEMA 110137074	OLEMA 1101	0.032407661		Marin	Tier 2	FALSE	TRUE	TRUE
OLEMA 1101416	OLEMA 1101	19.67222645		Marin	Tier 3	FALSE	TRUE	FALSE
OLEMA 110149756	OLEMA 1101	0.780386031		Marin	Tier 2	FALSE	TRUE	TRUE
OLEMA 110150396	OLEMA 1101	12.54663362		Marin	Tier 2	FALSE	TRUE	TRUE
OLEMA 1101512	OLEMA 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
OLEMA 1101602	OLEMA 1101	14.30087178		Marin	Tier 2	TRUE	TRUE	TRUE
OLEMA 110175686	OLEMA 1101	4.348792813		Marin	Tier 2	FALSE	TRUE	FALSE
OLEMA 1101758594	OLEMA 1101	1.180544221		Marin	Tier 3	FALSE	TRUE	FALSE
OLEMA 1101CB	OLEMA 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
OLETA 11011208	OLETA 1101	33.2594907		Amador	Tier 2	FALSE	TRUE	TRUE
OLETA 11011217	OLETA 1101	13.00309599		Amador	Tier 3	FALSE	TRUE	TRUE
OLETA 110113478	OLETA 1101	11.36356359		Amador	Tier 2	FALSE	TRUE	TRUE
OLETA 1101190308	OLETA 1101	0		Amador	Non-HFTD	FALSE	FALSE	FALSE
OLETA 1101239062	OLETA 1101	11.42484219		Amador	Tier 2	FALSE	TRUE	FALSE
OLETA 1101296804	OLETA 1101	3.389203629		Amador	Tier 2	FALSE	TRUE	TRUE
OLETA 1101440008	OLETA 1101	0.661592781		Amador	Tier 2	FALSE	TRUE	FALSE
OLETA 110151740	OLETA 1101	12.88611527		Amador	Tier 2	FALSE	TRUE	FALSE
OLETA 110163500	OLETA 1101	0.695421349		Amador	Tier 2	FALSE	TRUE	TRUE
OLETA 1101754718	OLETA 1101	2.897072504		Amador	Tier 2	FALSE	TRUE	FALSE
OLETA 1101994386	OLETA 1101	0.137387909		Amador	Tier 2	FALSE	TRUE	TRUE
OLETA 1101CB	OLETA 1101	0.061202738		Amador	Tier 2	FALSE	TRUE	TRUE
OLETA 11021204	OLETA 1102	24.29733961		Amador	Tier 2	FALSE	TRUE	TRUE
OLETA 11021228	OLETA 1102	7.368717052		Amador	Tier 2	FALSE	TRUE	TRUE
OLETA 1102186326	OLETA 1102	11.28354575		Amador	Tier 2	FALSE	TRUE	TRUE
OLETA 11022642	OLETA 1102	4.653917255		Amador	Tier 2	FALSE	TRUE	FALSE
OLETA 110241396	OLETA 1102	6.677184983		Amador	Tier 2	FALSE	TRUE	TRUE
OLETA 1102793776	OLETA 1102	1.181621529		Amador	Tier 2	FALSE	TRUE	FALSE
OLETA 1102799924	OLETA 1102	0.391745207		Amador	Tier 2	FALSE	TRUE	FALSE
OLETA 1102CB	OLETA 1102	0.372551314		Amador	Tier 2	FALSE	TRUE	TRUE
OLIVEHURST 11011262	OLIVEHURST 1101	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
OLIVEHURST 11011272	OLIVEHURST 1101	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
OLIVEHURST 1101505262	OLIVEHURST 1101	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
OLIVEHURST 110165710	OLIVEHURST 1101	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
OLIVEHURST 1101CB	OLIVEHURST 1101	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
OLIVEHURST 1102CB	OLIVEHURST 1102	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
OLIVEHURST 11031238	OLIVEHURST 1103	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
OLIVEHURST 11031240	OLIVEHURST 1103	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
OLIVEHURST 11037442	OLIVEHURST 1103	0		Yuba	Non-HFTD	TRUE	TRUE	FALSE
OLIVEHURST 1103CB	OLIVEHURST 1103	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
OLIVEHURST 1104CB	OLIVEHURST 1104	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
OLIVEHURST 11051242	OLIVEHURST 1105	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
OLIVEHURST 110593288	OLIVEHURST 1105	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
OLIVEHURST 1105CB	OLIVEHURST 1105	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
OREGON TRAIL 11021382	OREGON TRAIL 1102	5.559726044		Shasta	Tier 2	FALSE	TRUE	TRUE
OREGON TRAIL 11021584	OREGON TRAIL 1102	13.05961988		Shasta	Tier 2	FALSE	TRUE	TRUE
OREGON TRAIL 110249144	OREGON TRAIL 1102	16.70204717		Shasta	Tier 2	FALSE	TRUE	TRUE
OREGON TRAIL 1102CB	OREGON TRAIL 1102	9.370782989		Shasta	Tier 2	FALSE	TRUE	TRUE
OREGON TRAIL 11031448	OREGON TRAIL 1103	30.60448747		Shasta	Tier 2	FALSE	TRUE	TRUE
OREGON TRAIL 11031500	OREGON TRAIL 1103	25.78125632		Shasta	Tier 2	TRUE	TRUE	TRUE
OREGON TRAIL 110335002	OREGON TRAIL 1103	50.78440163		Shasta	Tier 2	FALSE	TRUE	TRUE
OREGON TRAIL 110346860	OREGON TRAIL 1103	0.709699731		Shasta	Tier 2	FALSE	TRUE	TRUE
OREGON TRAIL 1103CB	OREGON TRAIL 1103	2.282083919		Shasta	Tier 2	FALSE	TRUE	TRUE
OREGON TRAIL 1103CUS391	OREGON TRAIL 1103	0.022591596		Shasta	Tier 2	FALSE	TRUE	TRUE
OREGON TRAIL 1104128100	OREGON TRAIL 1104	0.916065672		Shasta	Tier 2	FALSE	TRUE	TRUE
OREGON TRAIL 11041574	OREGON TRAIL 1104	17.80428232		Shasta	Tier 2	FALSE	TRUE	TRUE
OREGON TRAIL 11041634	OREGON TRAIL 1104	32.26340206		Shasta	Tier 2	FALSE	TRUE	TRUE
OREGON TRAIL 11043310	OREGON TRAIL 1104	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
OREGON TRAIL 1104CB	OREGON TRAIL 1104	9.544266908		Shasta	Tier 2	FALSE	TRUE	TRUE
ORICK 1101CB	ORICK 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ORICK 11021484	ORICK 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
ORICK 1102CB	ORICK 1102	0		Humboldt	Non-HFTD	TRUE	TRUE	FALSE
ORINDA 04013442	ORINDA 0401	3.370502205		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ORINDA 0401772406	ORINDA 0401	0.098331358		Contra Costa	Tier 3	FALSE	TRUE	TRUE
ORINDA 0402532246	ORINDA 0402	6.359532171		Contra Costa	Tier 3	FALSE	TRUE	TRUE
ORLAND B 11012216	ORLAND B 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
ORLAND B 1101CB	ORLAND B 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
ORLAND B 11022546	ORLAND B 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
ORLAND B 1102CB	ORLAND B 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
ORLAND B 11032204	ORLAND B 1103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
ORLAND B 11032252	ORLAND B 1103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
ORLAND B 11032538	ORLAND B 1103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
ORLAND B 110353574	ORLAND B 1103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
ORLAND B 110355050	ORLAND B 1103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
ORLAND B 110396988	ORLAND B 1103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
ORLAND B 1103CB	ORLAND B 1103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
ORO FINO 11012022	ORO FINO 1101	16.1399171		Butte	Tier 3	TRUE	TRUE	TRUE
ORO FINO 1101CB	ORO FINO 1101	16.17291937		Butte	Tier 3	FALSE	TRUE	TRUE
ORO FINO 11022090	ORO FINO 1102	14.850068		Butte	Tier 3	FALSE	TRUE	TRUE
ORO FINO 11022236	ORO FINO 1102	2.545145782		Butte	Tier 3	FALSE	TRUE	TRUE
ORO FINO 11022556	ORO FINO 1102	1.275128098		Butte	Tier 3	FALSE	TRUE	TRUE
ORO FINO 110239154	ORO FINO 1102	42.2785087		Butte	Tier 3	TRUE	TRUE	TRUE
ORO FINO 110265932	ORO FINO 1102	11.21159775		Butte	Tier 3	FALSE	TRUE	TRUE
ORO FINO 110276008	ORO FINO 1102	16.1540747		Butte	Tier 3	TRUE	TRUE	TRUE
ORO FINO 1102787504	ORO FINO 1102	13.97086453		Butte	Tier 3	FALSE	TRUE	TRUE
ORO FINO 1102805744	ORO FINO 1102	5.384652445		Butte	Tier 3	FALSE	TRUE	TRUE
ORO FINO 1102CB	ORO FINO 1102	2.15766017		Butte	Tier 3	TRUE	TRUE	TRUE
ORO LOMA 1102CB	ORO LOMA 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 1103CB	ORO LOMA 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 11063650	ORO LOMA 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 11069790	ORO LOMA 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 1106CB	ORO LOMA 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 110876656	ORO LOMA 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 11089770	ORO LOMA 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 11089940	ORO LOMA 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 1108CB	ORO LOMA 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 1115245946	ORO LOMA 1115	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 11153400	ORO LOMA 1115	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 11153470	ORO LOMA 1115	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 1115612248	ORO LOMA 1115	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 111589060	ORO LOMA 1115	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 1115CB	ORO LOMA 1115	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 11163190	ORO LOMA 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 11163370	ORO LOMA 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 11163983	ORO LOMA 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 1116916754	ORO LOMA 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 1116CB	ORO LOMA 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 1116CUS7373	ORO LOMA 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 111711020	ORO LOMA 1117	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 11173740	ORO LOMA 1117	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 1117CB	ORO LOMA 1117	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 111848328	ORO LOMA 1118	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 1118848136	ORO LOMA 1118	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
ORO LOMA 1118CB	ORO LOMA 1118	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
OROSI 11017400	OROSI 1101	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 1101778698	OROSI 1101	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 11017839F	OROSI 1101	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 1101939642	OROSI 1101	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 1101CB	OROSI 1101	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 1102617446	OROSI 1102	0.477099181		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 11027948F	OROSI 1102	2.248493855		Tulare	Tier 2	FALSE	TRUE	TRUE
OROSI 1102CB	OROSI 1102	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 11037901F	OROSI 1103	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 1103CB	OROSI 1103	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 110433456	OROSI 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 110468494	OROSI 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 11047510	OROSI 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 11047753F	OROSI 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 110495092	OROSI 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROSI 1104CB	OROSI 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
OROVILLE 0402CB	OROVILLE 0402	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
OROVILLE 0403CB	OROVILLE 0403	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
OROVILLE 11011062	OROVILLE 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
OROVILLE 1101CB	OROVILLE 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
OROVILLE 1102434320	OROVILLE 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
OROVILLE 1102CB	OROVILLE 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
OROVILLE 110313028	OROVILLE 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
OROVILLE 1103CB	OROVILLE 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
OROVILLE 11042588	OROVILLE 1104	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
OROVILLE 1104CB	OROVILLE 1104	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
ORTIGA 1105669674	ORTIGA 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORTIGA 11059950	ORTIGA 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORTIGA 1105CB	ORTIGA 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORTIGA 110611190	ORTIGA 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORTIGA 11063770	ORTIGA 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORTIGA 1106438684	ORTIGA 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORTIGA 110655980	ORTIGA 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORTIGA 1106593066	ORTIGA 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORTIGA 110677310	ORTIGA 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORTIGA 110678478	ORTIGA 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORTIGA 11069780	ORTIGA 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
ORTIGA 1106CB	ORTIGA 1106	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
OTTER 11012052	OTTER 1101	9.217402151		Monterey	Tier 3	FALSE	TRUE	TRUE
OTTER 1101440	OTTER 1101	5.935464478		Monterey	Tier 2	FALSE	TRUE	TRUE
OTTER 1101CB	OTTER 1101	6.493651603		Monterey	Tier 3	FALSE	TRUE	TRUE
OTTER 11022002	OTTER 1102	8.506450695		Monterey	Tier 2	FALSE	TRUE	TRUE
OTTER 11022012	OTTER 1102	8.871987392		Monterey	Tier 2	FALSE	TRUE	TRUE
OTTER 11022166	OTTER 1102	4.030707864		Monterey	Tier 2	FALSE	TRUE	TRUE
OTTER 110263868	OTTER 1102	15.79571983		Monterey	Tier 2	FALSE	TRUE	TRUE
OTTER 110298036	OTTER 1102	8.935126195		Monterey	Tier 2	TRUE	TRUE	FALSE
OTTER 1102CB	OTTER 1102	6.592540115		Monterey	Tier 3	FALSE	TRUE	TRUE
PACIFIC GROVE 04212616	PACIFIC GROVE 0421	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PACIFIC GROVE 0421CB	PACIFIC GROVE 0421	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PACIFIC GROVE 04222608	PACIFIC GROVE 0422	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PACIFIC GROVE 04222614	PACIFIC GROVE 0422	0.130278452		Monterey	Tier 2	FALSE	TRUE	TRUE
PACIFIC GROVE 0422CB	PACIFIC GROVE 0422	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PACIFIC GROVE 0423CB	PACIFIC GROVE 0423	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PACIFIC GROVE 04242610	PACIFIC GROVE 0424	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PACIFIC GROVE 0424CB	PACIFIC GROVE 0424	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PACIFIC PIPE GRAPEVI 1101CB	PACIFIC PIPE GRAPEVI 1101	0.021942786		Kern	Non-HFTD	FALSE	FALSE	FALSE
PACIFICA 110110067	PACIFICA 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
PACIFICA 11015001	PACIFICA 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
PACIFICA 1101777484	PACIFICA 1101	0.741292241		San Mateo	Tier 2	FALSE	TRUE	TRUE
PACIFICA 1101CB	PACIFICA 1101	0.073028699		San Mateo	Tier 3	FALSE	TRUE	TRUE
PACIFICA 1102267868	PACIFICA 1102	0.82419418		San Mateo	Tier 3	FALSE	TRUE	FALSE
PACIFICA 1102320094	PACIFICA 1102	0.122430609		San Mateo	Tier 3	FALSE	TRUE	TRUE
PACIFICA 110252715	PACIFICA 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
PACIFICA 1102660408	PACIFICA 1102	0.226521882		San Mateo	Tier 3	FALSE	TRUE	TRUE
PACIFICA 110266732	PACIFICA 1102	0.13033235		San Mateo	Tier 3	FALSE	TRUE	TRUE
PACIFICA 11026783	PACIFICA 1102	0.475154774		San Mateo	Tier 2	FALSE	TRUE	TRUE
PACIFICA 1102934870	PACIFICA 1102	0.192679181		San Mateo	Tier 2	FALSE	TRUE	FALSE
PACIFICA 1102968736	PACIFICA 1102	0.693200807		San Mateo	Tier 3	FALSE	TRUE	FALSE
PACIFICA 1102CB	PACIFICA 1102	0.051926815		San Mateo	Tier 3	FALSE	TRUE	TRUE
PACIFICA 1103398620	PACIFICA 1103	0.426450909		San Mateo	Tier 3	FALSE	TRUE	TRUE
PACIFICA 1103885952	PACIFICA 1103	0.176697254		San Mateo	Tier 3	FALSE	TRUE	TRUE
PACIFICA 1103915474	PACIFICA 1103	0.204957493		San Mateo	Tier 3	FALSE	TRUE	TRUE
PACIFICA 1103CB	PACIFICA 1103	0.147389521		San Mateo	Tier 3	FALSE	TRUE	TRUE
PACIFICA 110410195	PACIFICA 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
PACIFICA 1104230272	PACIFICA 1104	0.704166518		San Mateo	Tier 2	FALSE	TRUE	FALSE
PACIFICA 1104CB	PACIFICA 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
PALMER 110198478	PALMER 1101	5.272588382		Santa Barbara	Tier 2	FALSE	TRUE	FALSE
PALMER 1101CB	PALMER 1101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
PALMER 1101CUSTREC	PALMER 1101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
PALMER 1101M82	PALMER 1101	10.25036039		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
PALMER 1101M84	PALMER 1101	21.97486839		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
PALMER 1101M88	PALMER 1101	1.962100957		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
PALO SECO 0401450678	PALO SECO 0401	4.697795152		Alameda	Tier 2	FALSE	TRUE	TRUE
PALO SECO 0401CB	PALO SECO 0401	0.012062959		Alameda	Tier 2	FALSE	TRUE	TRUE
PANAMA 21011128	PANAMA 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PANAMA 21011393	PANAMA 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PANAMA 21011400	PANAMA 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PANAMA 210138252	PANAMA 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PANAMA 21014678	PANAMA 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PANAMA 210165480	PANAMA 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PANAMA 2101CB	PANAMA 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PANAMA 210213071	PANAMA 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PANAMA 21021689	PANAMA 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PANAMA 21021690	PANAMA 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PANAMA 21024810	PANAMA 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PANAMA 2102784680	PANAMA 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PANAMA 2102CB	PANAMA 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 110110480	PANOCHE 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 11013530	PANOCHE 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 11013690	PANOCHE 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 1101752874	PANOCHE 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 1101CB	PANOCHE 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 110211830	PANOCHE 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 11023450	PANOCHE 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 11023460	PANOCHE 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 11023490	PANOCHE 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 11023700	PANOCHE 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 1102892696	PANOCHE 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 1102CB	PANOCHE 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 1103107270	PANOCHE 1103	1.96319235		San Benito	Tier 2	FALSE	TRUE	TRUE
PANOCHE 11034008	PANOCHE 1103	35.15654071		San Benito	Tier 2	FALSE	TRUE	TRUE
PANOCHE 11034010	PANOCHE 1103	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 11034036	PANOCHE 1103	7.120383707		San Benito	Tier 2	FALSE	TRUE	TRUE
PANOCHE 1103724590	PANOCHE 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 1103735730	PANOCHE 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 110390540	PANOCHE 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANOCHE 1103CB	PANOCHE 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PANORAMA 1101713592	PANORAMA 1101	10.36482434		Tehama	Tier 2	FALSE	TRUE	TRUE
PANORAMA 11019092	PANORAMA 1101	0.100448367		Shasta	Tier 2	FALSE	TRUE	TRUE
PANORAMA 1101CB	PANORAMA 1101	2.518297407		Shasta	Tier 2	FALSE	TRUE	TRUE
PANORAMA 11021249	PANORAMA 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
PANORAMA 11021342	PANORAMA 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
PANORAMA 11021526	PANORAMA 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
PANORAMA 11021632	PANORAMA 1102	8.470225159		Tehama	Tier 2	FALSE	TRUE	FALSE
PANORAMA 11022009	PANORAMA 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
PANORAMA 1102280170	PANORAMA 1102	10.20714956		Shasta	Tier 2	FALSE	TRUE	TRUE
PANORAMA 11023320	PANORAMA 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
PANORAMA 1102508502	PANORAMA 1102	11.31452903		Shasta	Tier 2	FALSE	TRUE	FALSE
PANORAMA 11029762	PANORAMA 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
PANORAMA 1102CB	PANORAMA 1102	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
PARADISE 11032486	PARADISE 1103	12.03846418		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 11032534	PARADISE 1103	1.247456046		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 110343008	PARADISE 1103	13.01463979		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 1103499094	PARADISE 1103	3.504496693		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 110353544	PARADISE 1103	0.923397491		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 1103CB	PARADISE 1103	3.940251658		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 11042034	PARADISE 1104	11.11710368		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 11042206	PARADISE 1104	2.447087537		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 110439214	PARADISE 1104	0.955965843		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 110439216	PARADISE 1104	2.688694062		Butte	Tier 3	TRUE	TRUE	FALSE
PARADISE 1104457900	PARADISE 1104	2.806106085		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 1104466872	PARADISE 1104	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PARADISE 1104920400	PARADISE 1104	2.736793544		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 1104954322	PARADISE 1104	2.826048624		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 1104CB	PARADISE 1104	1.099238205		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 11051212	PARADISE 1105	1.57341484		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 1105121988	PARADISE 1105	6.7090633		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 1105828400	PARADISE 1105	0.031136526		Butte	Tier 3	FALSE	TRUE	FALSE
PARADISE 1105829194	PARADISE 1105	11.36921411		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 1105878870	PARADISE 1105	9.112995541		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 1105CB	PARADISE 1105	18.12320901		Butte	Tier 3	TRUE	TRUE	TRUE
PARADISE 1106CB	PARADISE 1106	9.05328224		Butte	Tier 3	TRUE	TRUE	TRUE
PARKWAY 1101688	PARKWAY 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PARKWAY 1101702	PARKWAY 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PARKWAY 1101CB	PARKWAY 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PARKWAY 1102CB	PARKWAY 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PARKWAY 1103652	PARKWAY 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PARKWAY 1103CB	PARKWAY 1103	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
PARLIER 110242210	PARLIER 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PARLIER 1102CB	PARLIER 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PARLIER 110349150	PARLIER 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PARLIER 11035140	PARLIER 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PARLIER 11036810	PARLIER 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PARLIER 1103CB	PARLIER 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
PARLIER 1104184200	PARLIER 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PARLIER 11045180	PARLIER 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PARLIER 11045674F	PARLIER 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PARLIER 11046800	PARLIER 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PARLIER 110480102	PARLIER 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PARLIER 1104CB	PARLIER 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PARLIER 1105740598	PARLIER 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PARLIER 1105CB	PARLIER 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PARSONS 0401CB	PARSONS 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
PARSONS 0402CB	PARSONS 0402	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 110195810	PASO ROBLES 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1101CB	PASO ROBLES 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 110257672	PASO ROBLES 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1102CB	PASO ROBLES 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1102R64	PASO ROBLES 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1103351084	PASO ROBLES 1103	2.202724959		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PASO ROBLES 1103540954	PASO ROBLES 1103	7.812902216		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
PASO ROBLES 110355374	PASO ROBLES 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1103CB	PASO ROBLES 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1103N02	PASO ROBLES 1103	0.032735532		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PASO ROBLES 1103N50	PASO ROBLES 1103	1.097369144		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PASO ROBLES 1103N52	PASO ROBLES 1103	6.566726467		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PASO ROBLES 1103N54	PASO ROBLES 1103	13.49488293		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PASO ROBLES 1103N58	PASO ROBLES 1103	7.448479334		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PASO ROBLES 1103P08	PASO ROBLES 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1104998752	PASO ROBLES 1104	0.244470378		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PASO ROBLES 1104CB	PASO ROBLES 1104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1104P02	PASO ROBLES 1104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1104R12	PASO ROBLES 1104	26.06418226		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PASO ROBLES 1104R14	PASO ROBLES 1104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1104R56	PASO ROBLES 1104	10.85204829		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PASO ROBLES 110638682	PASO ROBLES 1106	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1106CB	PASO ROBLES 1106	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1106R70	PASO ROBLES 1106	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1107164828	PASO ROBLES 1107	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 110764703	PASO ROBLES 1107	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1107826368	PASO ROBLES 1107	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 110789148	PASO ROBLES 1107	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1107CB	PASO ROBLES 1107	0.266910793		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PASO ROBLES 1107P22	PASO ROBLES 1107	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1108CB	PASO ROBLES 1108	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1108P28	PASO ROBLES 1108	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PASO ROBLES 1108R10	PASO ROBLES 1108	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210110716	PAUL SWEET 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210111147	PAUL SWEET 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210112488	PAUL SWEET 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210112594	PAUL SWEET 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210166806	PAUL SWEET 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2101722422	PAUL SWEET 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2101955754	PAUL SWEET 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2101CB	PAUL SWEET 2101	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210212850	PAUL SWEET 2102	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210216006	PAUL SWEET 2102	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2102168368	PAUL SWEET 2102	0.179110909		Santa Cruz	Tier 3	FALSE	TRUE	FALSE
PAUL SWEET 2102337544	PAUL SWEET 2102	0.322070706		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
PAUL SWEET 21025291	PAUL SWEET 2102	0.031341324		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
PAUL SWEET 2102774760	PAUL SWEET 2102	3.360137707		Santa Cruz	Tier 3	FALSE	TRUE	FALSE
PAUL SWEET 2102777828	PAUL SWEET 2102	0.541165198		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
PAUL SWEET 2102CB	PAUL SWEET 2102	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210312075	PAUL SWEET 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210335240	PAUL SWEET 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2103458558	PAUL SWEET 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210349246	PAUL SWEET 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210349370	PAUL SWEET 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2103811390	PAUL SWEET 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210398594	PAUL SWEET 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2103CB	PAUL SWEET 2103	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210410916	PAUL SWEET 2104	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2104273794	PAUL SWEET 2104	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210437482	PAUL SWEET 2104	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210438286	PAUL SWEET 2104	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 21045394	PAUL SWEET 2104	14.30658945		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
PAUL SWEET 2104885736	PAUL SWEET 2104	2.895632526		Santa Cruz	Tier 3	FALSE	TRUE	FALSE
PAUL SWEET 2104CB	PAUL SWEET 2104	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210510290	PAUL SWEET 2105	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210510918	PAUL SWEET 2105	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210516008	PAUL SWEET 2105	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2105197474	PAUL SWEET 2105	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2105893980	PAUL SWEET 2105	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2105959032	PAUL SWEET 2105	0.767927803		Santa Cruz	Tier 2	FALSE	TRUE	FALSE
PAUL SWEET 2105CB	PAUL SWEET 2105	6.831389149		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
PAUL SWEET 210612828	PAUL SWEET 2106	0.95238931		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
PAUL SWEET 21065178	PAUL SWEET 2106	9.375922549		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
PAUL SWEET 2106607772	PAUL SWEET 2106	5.274606392		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
PAUL SWEET 2106974130	PAUL SWEET 2106	3.814799822		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
PAUL SWEET 2106CB	PAUL SWEET 2106	16.59159646		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
PAUL SWEET 210710986	PAUL SWEET 2107	7.764065635		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
PAUL SWEET 210711064	PAUL SWEET 2107	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210712222	PAUL SWEET 2107	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210716004	PAUL SWEET 2107	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2107179744	PAUL SWEET 2107	0.510171236		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
PAUL SWEET 210737234	PAUL SWEET 2107	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 21073959	PAUL SWEET 2107	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2107776336	PAUL SWEET 2107	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210793260	PAUL SWEET 2107	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210794948	PAUL SWEET 2107	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2107CB	PAUL SWEET 2107	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2108467366	PAUL SWEET 2108	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210855904	PAUL SWEET 2108	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210875588	PAUL SWEET 2108	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210878006	PAUL SWEET 2108	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
PAUL SWEET 2108CB	PAUL SWEET 2108	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 210910216	PAUL SWEET 2109	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2109634576	PAUL SWEET 2109	1.791904698		Santa Cruz	Tier 3	TRUE	TRUE	FALSE
PAUL SWEET 210980246	PAUL SWEET 2109	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
PAUL SWEET 2109CB	PAUL SWEET 2109	1.075741953		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
PEABODY 210218112	PEABODY 2102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 210240382	PEABODY 2102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 2102CB	PEABODY 2102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 210441042	PEABODY 2104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 2104CB	PEABODY 2104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 210515812	PEABODY 2105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 210518134	PEABODY 2105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 21059641	PEABODY 2105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 2105CB	PEABODY 2105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 2106CB	PEABODY 2106	0.393317147		Solano	Tier 2	TRUE	TRUE	TRUE
PEABODY 210718252	PEABODY 2107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 210718342	PEABODY 2107	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
PEABODY 210741980	PEABODY 2107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 21074902	PEABODY 2107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 210765584	PEABODY 2107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 210769886	PEABODY 2107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 21078502	PEABODY 2107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 21079784	PEABODY 2107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 2107CB	PEABODY 2107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 210818182	PEABODY 2108	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 2108CB	PEABODY 2108	0.336361921		Solano	Tier 2	FALSE	TRUE	TRUE
PEABODY 2109CB	PEABODY 2109	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
PEABODY 211218312	PEABODY 2112	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 2112CB	PEABODY 2112	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
PEABODY 211340336	PEABODY 2113	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 211357908	PEABODY 2113	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 211375820	PEABODY 2113	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PEABODY 2113873304	PEABODY 2113	0.816566898		Solano	Tier 2	FALSE	TRUE	TRUE
PEABODY 2113945670	PEABODY 2113	0.176275499		Solano	Tier 2	FALSE	TRUE	TRUE
PEABODY 2113CB	PEABODY 2113	0.031963382		Solano	Tier 2	FALSE	TRUE	TRUE
PEACHTON 11011980	PEACHTON 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 110135138	PEACHTON 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 110137470	PEACHTON 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 1101633	PEACHTON 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 1101CB	PEACHTON 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 11021960	PEACHTON 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 11021962	PEACHTON 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 11021964	PEACHTON 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 110255948	PEACHTON 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 110286036	PEACHTON 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 1102CB	PEACHTON 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 11031008	PEACHTON 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 11031010	PEACHTON 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 110334944	PEACHTON 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 110346176	PEACHTON 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 110386522	PEACHTON 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEACHTON 1103CB	PEACHTON 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
PEASE 11011248	PEASE 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 1101CB	PEASE 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 1102CB	PEASE 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 11031226	PEASE 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 11031246	PEASE 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 11031306	PEASE 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 1103264986	PEASE 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 11037274	PEASE 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 11037276	PEASE 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 1103CB	PEASE 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 11041228	PEASE 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 11042012	PEASE 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 11042292	PEASE 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 110450628	PEASE 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 1104CB	PEASE 1104	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 110551698	PEASE 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PEASE 1105CB	PEASE 1105	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PENNGROVE 1101170	PENNGROVE 1101	1.247707047		Sonoma	Tier 2	FALSE	TRUE	TRUE
PENNGROVE 1101190	PENNGROVE 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PENNGROVE 11013476	PENNGROVE 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PENNGROVE 1101554	PENNGROVE 1101	1.050816575		Sonoma	Tier 2	FALSE	TRUE	TRUE
PENNGROVE 1101730740	PENNGROVE 1101	0.1950724		Sonoma	Tier 2	FALSE	TRUE	TRUE
PENNGROVE 1101950828	PENNGROVE 1101	17.75398854		Sonoma	Tier 2	FALSE	TRUE	TRUE
PENNGROVE 1101CB	PENNGROVE 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PENRYN 11032198	PENRYN 1103	20.18727704		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 110351658	PENRYN 1103	8.723737944		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 1103604	PENRYN 1103	26.17112345		Placer	Tier 2	FALSE	TRUE	FALSE
PENRYN 1103660	PENRYN 1103	9.740592192		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 1103CB	PENRYN 1103	2.338899727		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 11051342	PENRYN 1105	19.92107911		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 11051378	PENRYN 1105	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PENRYN 1105154362	PENRYN 1105	1.531419182		Placer	Tier 2	FALSE	TRUE	FALSE
PENRYN 1105168616	PENRYN 1105	2.887893386		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 1105196418	PENRYN 1105	3.018205314		Placer	Tier 2	FALSE	TRUE	FALSE
PENRYN 11052406	PENRYN 1105	0.018237278		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 110550548	PENRYN 1105	0.000943259		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 110550550	PENRYN 1105	2.90376853		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 110551676	PENRYN 1105	4.07747273		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 1105CB	PENRYN 1105	0.09465806		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 1106212772	PENRYN 1106	0.805111389		Placer	Tier 2	FALSE	TRUE	FALSE
PENRYN 110651674	PENRYN 1106	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PENRYN 1106980728	PENRYN 1106	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PENRYN 1106CB	PENRYN 1106	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PENRYN 11072410	PENRYN 1107	2.799694279		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 11072704	PENRYN 1107	1.06079276		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 11072706	PENRYN 1107	4.861687826		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 11072708	PENRYN 1107	9.283639615		Placer	Tier 2	FALSE	TRUE	FALSE
PENRYN 1107346	PENRYN 1107	12.79369677		Placer	Tier 2	FALSE	TRUE	TRUE
PENRYN 110790970	PENRYN 1107	1.069234117		Placer	Tier 2	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
PENRYN 1107CB	PENRYN 1107	4.098359532		Placer	Tier 2	FALSE	TRUE	TRUE
PENTLAND 1101CB	PENTLAND 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
PEORIA 1701169700	PEORIA 1701	8.230593098		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 17013186	PEORIA 1701	9.771832767		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 170169124	PEORIA 1701	2.693672333		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 170176030	PEORIA 1701	8.362728082		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 170184318	PEORIA 1701	10.26133634		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 170190090	PEORIA 1701	29.43162191		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 1701CB	PEORIA 1701	8.747179833		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 170411232	PEORIA 1704	11.91706347		Calaveras	Tier 2	FALSE	TRUE	TRUE
PEORIA 170413490	PEORIA 1704	3.768580936		Calaveras	Tier 2	FALSE	TRUE	TRUE
PEORIA 170413494	PEORIA 1704	2.055786299		Calaveras	Tier 2	FALSE	TRUE	TRUE
PEORIA 17041837	PEORIA 1704	0		Tuolumne	Non-HFTD	FALSE	FALSE	FALSE
PEORIA 170449256	PEORIA 1704	0		Tuolumne	Non-HFTD	FALSE	FALSE	FALSE
PEORIA 170459596	PEORIA 1704	18.75298916		Calaveras	Tier 2	FALSE	TRUE	TRUE
PEORIA 17046090	PEORIA 1704	0.392674881		Calaveras	Tier 2	FALSE	TRUE	TRUE
PEORIA 17048040	PEORIA 1704	6.572668219		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 1704877670	PEORIA 1704	6.358010424		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 170488630	PEORIA 1704	0.742811087		Tuolumne	Tier 2	FALSE	TRUE	FALSE
PEORIA 170492888	PEORIA 1704	0.233208661		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 1704CB	PEORIA 1704	7.921496397		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 170510580	PEORIA 1705	6.552053769		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 17051834	PEORIA 1705	22.82911432		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 17056697	PEORIA 1705	4.125040044		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 170567898	PEORIA 1705	3.372936686		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 170570198	PEORIA 1705	2.053109829		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 170575274	PEORIA 1705	0.308791541		Tuolumne	Tier 2	TRUE	TRUE	TRUE
PEORIA 170587222	PEORIA 1705	4.807715886		Tuolumne	Tier 2	TRUE	TRUE	TRUE
PEORIA 170590374	PEORIA 1705	3.947510835		Tuolumne	Tier 2	FALSE	TRUE	FALSE
PEORIA 1705999	PEORIA 1705	2.301920234		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PEORIA 1705CB	PEORIA 1705	7.221357081		Tuolumne	Tier 2	FALSE	TRUE	TRUE
PERRY 1101200598	PERRY 1101	8.839731674		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PERRY 1101618168	PERRY 1101	1.857674405		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
PERRY 110179696	PERRY 1101	32.64729762		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
PERRY 110185870	PERRY 1101	0.892442197		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PERRY 1101986322	PERRY 1101	5.856884076		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PERRY 1101CB	PERRY 1101	2.454026522		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PERRY 1101V74	PERRY 1101	1.998163545		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
PERRY 1101V88	PERRY 1101	0.591548868		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PERRY 1101W10	PERRY 1101	1.251384694		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PERRY 1101W12	PERRY 1101	3.557347156		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PERRY 1101W26	PERRY 1101	2.668032368		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
PERRY 1101W52	PERRY 1101	2.920116863		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
PERRY 1104CB	PERRY 1104	0.147193958		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
PETALUMA A 0411CB	PETALUMA A 0411	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PETALUMA A 0413CB	PETALUMA A 0413	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PETALUMA C 1101CB	PETALUMA C 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PETALUMA C 11024086	PETALUMA C 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PETALUMA C 1102CB	PETALUMA C 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PETALUMA C 11054238	PETALUMA C 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PETALUMA C 1105CB	PETALUMA C 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PETALUMA C 1106278842	PETALUMA C 1106	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PETALUMA C 1106CB	PETALUMA C 1106	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PETALUMA C 1108208	PETALUMA C 1108	12.45816605		Sonoma	Tier 2	FALSE	TRUE	FALSE
PETALUMA C 1108233646	PETALUMA C 1108	9.244362403		Sonoma	Tier 2	FALSE	TRUE	FALSE
PETALUMA C 1108296	PETALUMA C 1108	14.64867792		Marin	Tier 2	FALSE	TRUE	FALSE
PETALUMA C 110835448	PETALUMA C 1108	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PETALUMA C 110835452	PETALUMA C 1108	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PETALUMA C 110856774	PETALUMA C 1108	0.184748187		Sonoma	Tier 2	FALSE	TRUE	TRUE
PETALUMA C 1108594	PETALUMA C 1108	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
PETALUMA C 1108600	PETALUMA C 1108	5.075684394		Sonoma	Tier 2	FALSE	TRUE	TRUE
PETALUMA C 1108618	PETALUMA C 1108	8.573826068		Sonoma	Tier 2	FALSE	TRUE	TRUE
PETALUMA C 1108630	PETALUMA C 1108	1.566846361		Sonoma	Tier 2	FALSE	TRUE	TRUE
PETALUMA C 1108632	PETALUMA C 1108	14.58096603		Marin	Tier 2	FALSE	TRUE	FALSE
PETALUMA C 1108636	PETALUMA C 1108	9.283815781		Sonoma	Tier 2	FALSE	TRUE	FALSE
PETALUMA C 1108883512	PETALUMA C 1108	0.174106821		Sonoma	Tier 2	FALSE	TRUE	FALSE
PETALUMA C 1108CB	PETALUMA C 1108	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PETALUMA C 1109128	PETALUMA C 1109	27.10627186		Marin	Tier 2	FALSE	TRUE	TRUE
PETALUMA C 1109259100	PETALUMA C 1109	1.71890169		Sonoma	Tier 2	FALSE	TRUE	TRUE
PETALUMA C 1109270	PETALUMA C 1109	1.914735578		Sonoma	Tier 2	FALSE	TRUE	TRUE
PETALUMA C 1109373772	PETALUMA C 1109	0.022510611		Sonoma	Tier 2	FALSE	TRUE	FALSE
PETALUMA C 110948000	PETALUMA C 1109	7.324321196		Sonoma	Tier 2	FALSE	TRUE	TRUE
PETALUMA C 1109664732	PETALUMA C 1109	0.865404027		Sonoma	Tier 2	FALSE	TRUE	FALSE
PETALUMA C 1109738866	PETALUMA C 1109	1.809639234		Sonoma	Tier 2	FALSE	TRUE	FALSE
PETALUMA C 1109820458	PETALUMA C 1109	7.318612772		Sonoma	Tier 2	FALSE	TRUE	FALSE
PETALUMA C 1109857148	PETALUMA C 1109	0.738309833		Sonoma	Tier 2	FALSE	TRUE	TRUE
PETALUMA C 1109CB	PETALUMA C 1109	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PETALUMA C 1110456	PETALUMA C 1110	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
PHILO 11013700	PHILO 1101	20.88337956		Mendocino	Tier 2	FALSE	TRUE	TRUE
PHILO 110137222	PHILO 1101	25.32730739		Mendocino	Tier 2	FALSE	TRUE	FALSE
PHILO 1101CB	PHILO 1101	30.28280113		Mendocino	Tier 2	FALSE	TRUE	TRUE
PHILO 11021308	PHILO 1102	31.92731442		Mendocino	Tier 2	FALSE	TRUE	TRUE
PHILO 11022600	PHILO 1102	19.80334027		Mendocino	Tier 2	FALSE	TRUE	TRUE
PHILO 1102920	PHILO 1102	16.52116595		Mendocino	Tier 2	FALSE	TRUE	TRUE
PHILO 1102928	PHILO 1102	13.53881236		Mendocino	Tier 2	FALSE	TRUE	TRUE
PHILO 1102CB	PHILO 1102	6.519894894		Mendocino	Tier 2	FALSE	TRUE	TRUE
PIERCY 210917515	PIERCY 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
PIERCY 210942383	PIERCY 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
PIERCY 2109906172	PIERCY 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
PIERCY 2109CB	PIERCY 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
PIERCY 2109XR200	PIERCY 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
PIERCY 2109XR202	PIERCY 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
PIERCY 2109XR376	PIERCY 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
PIERCY 2109XR378	PIERCY 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
PIERCY 2109XR482	PIERCY 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
PIERCY 2110866388	PIERCY 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
PIERCY 2110CB	PIERCY 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
PIERCY 2110XR258	PIERCY 2110	24.83922871		Santa Clara	Tier 2	FALSE	TRUE	FALSE
PIERCY 2111CB	PIERCY 2111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
PIKE CITY 11011720	PIKE CITY 1101	5.894309346		Yuba	Tier 3	FALSE	TRUE	TRUE
PIKE CITY 11011730	PIKE CITY 1101	8.429954115		Yuba	Tier 3	TRUE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
PIKE CITY 1101417084	PIKE CITY 1101	11.16288301		Yuba	Tier 3	FALSE	TRUE	TRUE
PIKE CITY 1101935730	PIKE CITY 1101	7.784776183		Sierra	Tier 3	FALSE	TRUE	TRUE
PIKE CITY 1101CB	PIKE CITY 1101	0.755768741		Sierra	Tier 3	FALSE	TRUE	TRUE
PIKE CITY 1102CB	PIKE CITY 1102	9.516668769		Sierra	Tier 3	FALSE	TRUE	TRUE
PINE GROVE 11011021	PINE GROVE 1101	4.16499409		Amador	Tier 2	FALSE	TRUE	TRUE
PINE GROVE 11013166	PINE GROVE 1101	12.14669819		Amador	Tier 2	FALSE	TRUE	TRUE
PINE GROVE 11013170	PINE GROVE 1101	39.56875043		Amador	Tier 2	FALSE	TRUE	TRUE
PINE GROVE 110152088	PINE GROVE 1101	2.486295298		Amador	Tier 2	FALSE	TRUE	FALSE
PINE GROVE 110194936	PINE GROVE 1101	9.15390973		Amador	Tier 2	FALSE	TRUE	TRUE
PINE GROVE 1101CB	PINE GROVE 1101	4.274559039		Amador	Tier 2	FALSE	TRUE	TRUE
PINE GROVE 11021222	PINE GROVE 1102	12.08050855		Amador	Tier 3	FALSE	TRUE	TRUE
PINE GROVE 110213438	PINE GROVE 1102	16.52523679		Amador	Tier 3	FALSE	TRUE	TRUE
PINE GROVE 11021765	PINE GROVE 1102	1.456357312		Amador	Tier 3	FALSE	TRUE	TRUE
PINE GROVE 1102269286	PINE GROVE 1102	28.14544877		Amador	Tier 3	FALSE	TRUE	TRUE
PINE GROVE 11023168	PINE GROVE 1102	29.9039762		Amador	Tier 3	FALSE	TRUE	TRUE
PINE GROVE 11023172	PINE GROVE 1102	9.455974327		Amador	Tier 3	FALSE	TRUE	TRUE
PINE GROVE 110235576	PINE GROVE 1102	7.875102397		Amador	Tier 3	FALSE	TRUE	TRUE
PINE GROVE 110245292	PINE GROVE 1102	10.78502685		Amador	Tier 3	FALSE	TRUE	TRUE
PINE GROVE 1102467560	PINE GROVE 1102	2.007899271		Amador	Tier 3	FALSE	TRUE	TRUE
PINE GROVE 11026080	PINE GROVE 1102	34.35463882		Amador	Tier 2	FALSE	TRUE	TRUE
PINE GROVE 1102696442	PINE GROVE 1102	4.89963289		Amador	Tier 3	FALSE	TRUE	TRUE
PINE GROVE 110283098	PINE GROVE 1102	7.91763095		Amador	Tier 3	FALSE	TRUE	TRUE
PINE GROVE 1102CB	PINE GROVE 1102	10.81573669		Amador	Tier 3	FALSE	TRUE	TRUE
PINECREST 04011818	PINECREST 0401	3.056949653		Tuolumne	Tier 3	FALSE	TRUE	TRUE
PINECREST 0401CB	PINECREST 0401	0.019596788		Tuolumne	Tier 3	FALSE	TRUE	TRUE
PINEDALE 210155278	PINEDALE 2101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 2101CB	PINEDALE 2101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 210232912	PINEDALE 2102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 2102CB	PINEDALE 2102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 210365598	PINEDALE 2103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 2103CB	PINEDALE 2103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 210541238	PINEDALE 2105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 2105CB	PINEDALE 2105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 210653722	PINEDALE 2106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 2106CB	PINEDALE 2106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 2106R3250	PINEDALE 2106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 2106R3270	PINEDALE 2106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 2107CB	PINEDALE 2107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 210979984	PINEDALE 2109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 2109CB	PINEDALE 2109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 2110CB	PINEDALE 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PINEDALE 2111CB	PINEDALE 2111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
PIPER BANK 0401CB	PIPER BANK 0401	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
PIT NO 1 11011552	PIT NO 1 1101	12.647401		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 1 11013312	PIT NO 1 1101	7.965938803		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 1 110170952	PIT NO 1 1101	1.677449253		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 1 11019702	PIT NO 1 1101	0.611132759		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 1 1101CB	PIT NO 1 1101	6.635451878		Shasta	Tier 2	TRUE	TRUE	TRUE
PIT NO 1 1101LR-RC-A	PIT NO 1 1101	0		Shasta	Non-HFTD	FALSE	FALSE	FALSE
PIT NO 3 21011360	PIT NO 3 2101	22.15598813		Shasta	Tier 2	FALSE	TRUE	FALSE
PIT NO 3 21011386	PIT NO 3 2101	6.481143784		Shasta	Tier 2	FALSE	TRUE	FALSE
PIT NO 3 21011480	PIT NO 3 2101	2.13395901		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 3 21011482	PIT NO 3 2101	12.1426343		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 3 2101CB	PIT NO 3 2101	4.549459208		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 5 11011614	PIT NO 5 1101	1.841937759		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 5 11011618	PIT NO 5 1101	6.185201389		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 5 11011658	PIT NO 5 1101	4.556347699		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 5 11011660	PIT NO 5 1101	4.878119551		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 5 1101884224	PIT NO 5 1101	5.343033815		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 5 110190846	PIT NO 5 1101	0.088248738		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 5 1101923612	PIT NO 5 1101	0.623138044		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 5 1101CB	PIT NO 5 1101	0.13506254		Shasta	Tier 2	FALSE	TRUE	TRUE
PIT NO 7 1101CB	PIT NO 7 1101	2.840556907		Shasta	Tier 2	FALSE	TRUE	TRUE
PITTSBURG 0401CB	PITTSBURG 0401	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
PITTSBURG 0402CB	PITTSBURG 0402	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
PLACER 1101106534	PLACER 1101	1.1893951		Placer	Tier 2	FALSE	TRUE	TRUE
PLACER 1101208930	PLACER 1101	0.074085674		Placer	Tier 2	FALSE	TRUE	TRUE
PLACER 1101CB	PLACER 1101	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLACER 1102CB	PLACER 1102	1.859716129		Placer	Tier 2	FALSE	TRUE	FALSE
PLACER 1103238990	PLACER 1103	0.020045084		Placer	Tier 2	FALSE	TRUE	TRUE
PLACER 1103284874	PLACER 1103	1.739742245		Placer	Tier 2	FALSE	TRUE	TRUE
PLACER 1103429574	PLACER 1103	3.680375462		Placer	Tier 2	FALSE	TRUE	TRUE
PLACER 1103CB	PLACER 1103	6.663155038		Placer	Tier 2	FALSE	TRUE	TRUE
PLACER 1104426944	PLACER 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLACER 110451732	PLACER 1104	0.519052141		Placer	Tier 2	FALSE	TRUE	TRUE
PLACER 110451734	PLACER 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLACER 1104CB	PLACER 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLACERVILLE 1109868678	PLACERVILLE 1109	10.74810594		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 1109CB	PLACERVILLE 1109	0.00881808		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 111019582	PLACERVILLE 1110	7.011151328		El Dorado	Tier 2	FALSE	TRUE	FALSE
PLACERVILLE 1110421358	PLACERVILLE 1110	14.81080125		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 1110953474	PLACERVILLE 1110	10.79159854		El Dorado	Tier 3	FALSE	TRUE	TRUE
PLACERVILLE 1110CB	PLACERVILLE 1110	0.782287998		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 1111508410	PLACERVILLE 1111	4.505875281		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 1111610322	PLACERVILLE 1111	0.123062164		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 11118582	PLACERVILLE 1111	7.779872933		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 1111880534	PLACERVILLE 1111	0.570645391		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 1111925936	PLACERVILLE 1111	0.403972153		El Dorado	Tier 2	FALSE	TRUE	FALSE
PLACERVILLE 1111CB	PLACERVILLE 1111	1.346249781		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 111219712	PLACERVILLE 1112	12.89644208		El Dorado	Tier 2	TRUE	TRUE	TRUE
PLACERVILLE 111219742	PLACERVILLE 1112	6.413276637		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 1112237902	PLACERVILLE 1112	0.1542466		El Dorado	Tier 2	FALSE	TRUE	FALSE
PLACERVILLE 1112239390	PLACERVILLE 1112	1.891411087		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 1112566624	PLACERVILLE 1112	5.357213892		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 1112774186	PLACERVILLE 1112	0.185979886		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 1112778710	PLACERVILLE 1112	0.002025544		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 1112CB	PLACERVILLE 1112	0.634630537		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 21061104	PLACERVILLE 2106	49.16854378		El Dorado	Tier 3	TRUE	TRUE	TRUE
PLACERVILLE 210611132	PLACERVILLE 2106	42.39851395		El Dorado	Tier 3	FALSE	TRUE	TRUE
PLACERVILLE 210619552	PLACERVILLE 2106	21.27355628		El Dorado	Tier 3	FALSE	TRUE	TRUE
PLACERVILLE 210619732	PLACERVILLE 2106	7.957040038		El Dorado	Tier 3	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
PLACERVILLE 21062224	PLACERVILLE 2106	10.4070593		El Dorado	Tier 3	FALSE	TRUE	TRUE
PLACERVILLE 210623190	PLACERVILLE 2106	3.544326555		El Dorado	Tier 3	FALSE	TRUE	TRUE
PLACERVILLE 2106458188	PLACERVILLE 2106	1.309537358		El Dorado	Tier 3	FALSE	TRUE	FALSE
PLACERVILLE 210658118	PLACERVILLE 2106	0.05301826		El Dorado	Tier 3	FALSE	TRUE	TRUE
PLACERVILLE 21067522	PLACERVILLE 2106	67.11503359		El Dorado	Tier 3	FALSE	TRUE	TRUE
PLACERVILLE 2106869108	PLACERVILLE 2106	0.200379903		El Dorado	Tier 2	FALSE	TRUE	TRUE
PLACERVILLE 210692012	PLACERVILLE 2106	18.41720608		El Dorado	Tier 3	FALSE	TRUE	TRUE
PLACERVILLE 2106935216	PLACERVILLE 2106	20.58916834		El Dorado	Tier 3	FALSE	TRUE	TRUE
PLACERVILLE 2106CB	PLACERVILLE 2106	6.197225976		El Dorado	Tier 3	FALSE	TRUE	TRUE
PLAINFIELD 110146254	PLAINFIELD 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 1101603390	PLAINFIELD 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 11016562	PLAINFIELD 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 11019323	PLAINFIELD 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 1101CB	PLAINFIELD 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 110512792	PLAINFIELD 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 110521472	PLAINFIELD 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 110522322	PLAINFIELD 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 1105403328	PLAINFIELD 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 1105907648	PLAINFIELD 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 1105CB	PLAINFIELD 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 110618162	PLAINFIELD 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 110620042	PLAINFIELD 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 110621482	PLAINFIELD 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 110623102	PLAINFIELD 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLAINFIELD 1106CB	PLAINFIELD 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PLEASANT GROVE 2103CB	PLEASANT GROVE 2103	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLEASANT GROVE 2104CB	PLEASANT GROVE 2104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLEASANT GROVE 2107CB	PLEASANT GROVE 2107	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLEASANT GROVE 2108CB	PLEASANT GROVE 2108	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLEASANT GROVE 21101296	PLEASANT GROVE 2110	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLEASANT GROVE 21102236	PLEASANT GROVE 2110	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLEASANT GROVE 211048528	PLEASANT GROVE 2110	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLEASANT GROVE 211050514	PLEASANT GROVE 2110	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLEASANT GROVE 211050516	PLEASANT GROVE 2110	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLEASANT GROVE 21106128	PLEASANT GROVE 2110	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLEASANT GROVE 2110CB	PLEASANT GROVE 2110	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLEASANT GROVE 2110CUS18	PLEASANT GROVE 2110	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
PLUMAS 1101618170	PLUMAS 1101	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
PLUMAS 11017376	PLUMAS 1101	0		Yuba	Non-HFTD	TRUE	TRUE	FALSE
PLUMAS 1101CB	PLUMAS 1101	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
PLUMAS 1102CB	PLUMAS 1102	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
PLUMAS 210650800	PLUMAS 2106	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PLUMAS 210680200	PLUMAS 2106	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
PLUMAS 2106CB	PLUMAS 2106	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
PLUMAS 210750636	PLUMAS 2107	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
PLUMAS 210750638	PLUMAS 2107	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
PLUMAS 210750806	PLUMAS 2107	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
PLUMAS 2107CB	PLUMAS 2107	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
PLYMOUTH 0401971616	PLYMOUTH 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
PLYMOUTH 0401CB	PLYMOUTH 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POINT ARENA 11011296	POINT ARENA 1101	2.823855745		Mendocino	Tier 2	FALSE	TRUE	FALSE
POINT ARENA 11012637	POINT ARENA 1101	4.115797748		Mendocino	Tier 2	FALSE	TRUE	FALSE
POINT ARENA 11013702	POINT ARENA 1101	4.918302936		Mendocino	Tier 2	FALSE	TRUE	FALSE
POINT ARENA 110137426	POINT ARENA 1101	0.491405879		Mendocino	Tier 2	FALSE	TRUE	TRUE
POINT ARENA 1101474	POINT ARENA 1101	8.906803977		Mendocino	Tier 2	FALSE	TRUE	FALSE
POINT ARENA 1101476	POINT ARENA 1101	2.080211575		Mendocino	Tier 2	FALSE	TRUE	TRUE
POINT ARENA 1101478	POINT ARENA 1101	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
POINT ARENA 110147952	POINT ARENA 1101	10.32779024		Mendocino	Tier 2	FALSE	TRUE	FALSE
POINT ARENA 11014923	POINT ARENA 1101	2.93325227		Mendocino	Tier 2	FALSE	TRUE	FALSE
POINT ARENA 110183354	POINT ARENA 1101	5.254715297		Mendocino	Tier 2	FALSE	TRUE	FALSE
POINT ARENA 110198224	POINT ARENA 1101	2.346865215		Mendocino	Tier 2	FALSE	TRUE	FALSE
POINT ARENA 1101CB	POINT ARENA 1101	0.05236981		Mendocino	Tier 2	FALSE	TRUE	TRUE
POINT MORETTI 110110726	POINT MORETTI 1101	10.48049524		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
POINT MORETTI 110112122	POINT MORETTI 1101	6.563275878		Santa Cruz	Tier 2	TRUE	TRUE	FALSE
POINT MORETTI 110135874	POINT MORETTI 1101	0.204731247		Santa Cruz	Tier 2	TRUE	TRUE	TRUE
POINT MORETTI 110136514	POINT MORETTI 1101	6.866184132		Santa Cruz	Tier 3	TRUE	TRUE	FALSE
POINT MORETTI 1101415734	POINT MORETTI 1101	5.573770918		Santa Cruz	Tier 2	TRUE	TRUE	TRUE
POINT MORETTI 11015074	POINT MORETTI 1101	1.207189509		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
POINT MORETTI 11015078	POINT MORETTI 1101	14.86622017		Santa Cruz	Tier 3	TRUE	TRUE	TRUE
POINT MORETTI 11015104	POINT MORETTI 1101	1.421554244		Santa Cruz	Tier 2	FALSE	TRUE	FALSE
POINT MORETTI 1101CB	POINT MORETTI 1101	0.069846224		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
POINT PINOLE 1101BR318	POINT PINOLE 1101	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
POINT PINOLE 1101CB	POINT PINOLE 1101	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
POINT PINOLE 1101P140	POINT PINOLE 1101	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
POINT PINOLE 1102502690	POINT PINOLE 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
POINT PINOLE 1102BR154	POINT PINOLE 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
POINT PINOLE 1102BR158	POINT PINOLE 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
POINT PINOLE 1102CB	POINT PINOLE 1102	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
POINT PINOLE 1102P152	POINT PINOLE 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
POINT PINOLE 1103CB	POINT PINOLE 1103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
PORTOLA 0401900726	PORTOLA 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
PORTOLA 0401CB	PORTOLA 0401	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
PORTOLA 040240323	PORTOLA 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
PORTOLA 0402CB	PORTOLA 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
PORTRERO PP(A) 1120CB	PORTRERO PP(A) 1120	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POSO MOUNTAIN 21011703	POSO MOUNTAIN 2101	0.724552076		Kern	Tier 2	FALSE	TRUE	FALSE
POSO MOUNTAIN 21012181	POSO MOUNTAIN 2101	16.67120942		Kern	Tier 2	TRUE	TRUE	FALSE
POSO MOUNTAIN 21013990	POSO MOUNTAIN 2101	3.649045061		Kern	Tier 2	TRUE	TRUE	FALSE
POSO MOUNTAIN 21014456	POSO MOUNTAIN 2101	23.33832901		Kern	Tier 2	FALSE	TRUE	FALSE
POSO MOUNTAIN 2101720132	POSO MOUNTAIN 2101	2.782546959		Kern	Tier 2	FALSE	TRUE	TRUE
POSO MOUNTAIN 2101CB	POSO MOUNTAIN 2101	1.591979257		Kern	Tier 2	TRUE	TRUE	TRUE
POSO MOUNTAIN 2103388671	POSO MOUNTAIN 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
POSO MOUNTAIN 2103CB	POSO MOUNTAIN 2103	18.42887279		Kern	Tier 2	FALSE	TRUE	FALSE
POSO MOUNTAIN 210448268	POSO MOUNTAIN 2104	4.662052057		Kern	Tier 2	FALSE	TRUE	FALSE
POSO MOUNTAIN 2104CB	POSO MOUNTAIN 2104	3.367727452		Kern	Tier 2	TRUE	TRUE	TRUE
POTRERO PP (A) 11015207	POTRERO PP (A) 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 110198694	POTRERO PP (A) 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1101CB	POTRERO PP (A) 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1102CB	POTRERO PP (A) 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 110338452	POTRERO PP (A) 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 110395150	POTRERO PP (A) 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE

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Circuit Segment List
(Continued)

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
POTRERO PP (A) 1103CB	POTRERO PP (A) 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1104CB	POTRERO PP (A) 1104	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1105CB	POTRERO PP (A) 1105	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1107CB	POTRERO PP (A) 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 110811489	POTRERO PP (A) 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1108CB	POTRERO PP (A) 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 11096625	POTRERO PP (A) 1109	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 110966602	POTRERO PP (A) 1109	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1109CB	POTRERO PP (A) 1109	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 11103415	POTRERO PP (A) 1110	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 111041854	POTRERO PP (A) 1110	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1110799022	POTRERO PP (A) 1110	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1110CB	POTRERO PP (A) 1110	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 11123405	POTRERO PP (A) 1112	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1112CB	POTRERO PP (A) 1112	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 11136647	POTRERO PP (A) 1113	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1113CB	POTRERO PP (A) 1113	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
POTRERO PP (A) 1114CB	POTRERO PP (A) 1114	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1115CB	POTRERO PP (A) 1115	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1116CB	POTRERO PP (A) 1116	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1117548866	POTRERO PP (A) 1117	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 11175545	POTRERO PP (A) 1117	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 11176695	POTRERO PP (A) 1117	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1117CB	POTRERO PP (A) 1117	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 111814777	POTRERO PP (A) 1118	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1118CB	POTRERO PP (A) 1118	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1119CB	POTRERO PP (A) 1119	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 112169424	POTRERO PP (A) 1121	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTRERO PP (A) 1121CB	POTRERO PP (A) 1121	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
POTTER VALLEY P H 1104546986	POTTER VALLEY P H 1104	2.41248725		Mendocino	Tier 2	TRUE	TRUE	FALSE
POTTER VALLEY P H 110495878	POTTER VALLEY P H 1104	2.215122422		Mendocino	Tier 3	TRUE	TRUE	TRUE
POTTER VALLEY P H 1104CB	POTTER VALLEY P H 1104	0.083049148		Mendocino	Tier 2	FALSE	TRUE	TRUE
POTTER VALLEY P H 11051904	POTTER VALLEY P H 1105	31.60634778		Mendocino	Tier 3	TRUE	TRUE	TRUE
POTTER VALLEY P H 110537476	POTTER VALLEY P H 1105	1.902369161		Mendocino	Tier 2	TRUE	TRUE	TRUE
POTTER VALLEY P H 1105640888	POTTER VALLEY P H 1105	8.52487458		Mendocino	Tier 2	FALSE	TRUE	TRUE
POTTER VALLEY P H 110564118	POTTER VALLEY P H 1105	1.06744388		Mendocino	Tier 2	TRUE	TRUE	TRUE
POTTER VALLEY P H 110576498	POTTER VALLEY P H 1105	6.287009192		Mendocino	Tier 2	FALSE	TRUE	TRUE
POTTER VALLEY P H 1105990354	POTTER VALLEY P H 1105	0.09588547		Mendocino	Tier 2	FALSE	TRUE	TRUE
POTTER VALLEY P H 1105CB	POTTER VALLEY P H 1105	0.055520669		Mendocino	Tier 2	FALSE	TRUE	FALSE
PRUNEDALE 110722232	PRUNEDALE 1107	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 110722448	PRUNEDALE 1107	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 110725695	PRUNEDALE 1107	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 11073062	PRUNEDALE 1107	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 110736920	PRUNEDALE 1107	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 11073712	PRUNEDALE 1107	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 1107CB	PRUNEDALE 1107	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 111020059	PRUNEDALE 1110	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 111022104	PRUNEDALE 1110	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 111022160	PRUNEDALE 1110	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 11103080	PRUNEDALE 1110	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 11103716	PRUNEDALE 1110	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 1110557716	PRUNEDALE 1110	0.241945888		Monterey	Tier 2	FALSE	TRUE	TRUE
PRUNEDALE 1110607060	PRUNEDALE 1110	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 1110826224	PRUNEDALE 1110	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PRUNEDALE 1110CB	PRUNEDALE 1110	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 110247720	PUEBLO 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 110256136	PUEBLO 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 1102662	PUEBLO 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 1102671	PUEBLO 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 110298730	PUEBLO 1102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 1102CB	PUEBLO 1102	0.092615382		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 11031751	PUEBLO 1103	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 1103857188	PUEBLO 1103	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 1103CB	PUEBLO 1103	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 1104105708	PUEBLO 1104	19.23585583		Napa	Tier 2	TRUE	TRUE	TRUE
PUEBLO 11042802	PUEBLO 1104	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 110447912	PUEBLO 1104	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 1104536006	PUEBLO 1104	0		Napa	Non-HFTD	TRUE	TRUE	FALSE
PUEBLO 1104580658	PUEBLO 1104	9.164017425		Napa	Tier 2	TRUE	TRUE	TRUE
PUEBLO 110459106	PUEBLO 1104	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 1104640	PUEBLO 1104	0		Napa	Non-HFTD	TRUE	TRUE	FALSE
PUEBLO 110475462	PUEBLO 1104	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 1104968601	PUEBLO 1104	0.007605461		Napa	Tier 2	TRUE	TRUE	TRUE
PUEBLO 1104CB	PUEBLO 1104	0.048029994		Napa	Non-HFTD	TRUE	TRUE	TRUE
PUEBLO 11053022	PUEBLO 1105	0		Napa	Non-HFTD	TRUE	TRUE	FALSE
PUEBLO 1105348368	PUEBLO 1105	1.993924769		Napa	Tier 2	TRUE	TRUE	TRUE
PUEBLO 1105419634	PUEBLO 1105	0.109707225		Napa	Tier 2	TRUE	TRUE	TRUE
PUEBLO 1105426584	PUEBLO 1105	3.56514886		Napa	Tier 2	TRUE	TRUE	TRUE
PUEBLO 110548260	PUEBLO 1105	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 110548264	PUEBLO 1105	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 1105637242	PUEBLO 1105	14.80796818		Napa	Tier 2	TRUE	TRUE	TRUE
PUEBLO 1105642	PUEBLO 1105	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 1105684564	PUEBLO 1105	0.25035638		Napa	Tier 2	TRUE	TRUE	TRUE
PUEBLO 1105696	PUEBLO 1105	0		Napa	Non-HFTD	TRUE	TRUE	FALSE
PUEBLO 1105716	PUEBLO 1105	0		Napa	Non-HFTD	TRUE	TRUE	FALSE
PUEBLO 1105CB	PUEBLO 1105	0.04677778		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 2101654716	PUEBLO 2101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 210182742	PUEBLO 2101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 2101CB	PUEBLO 2101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 21021326	PUEBLO 2102	0		Napa	Non-HFTD	TRUE	TRUE	FALSE
PUEBLO 2102279478	PUEBLO 2102	0.311280118		Napa	Tier 2	FALSE	TRUE	TRUE
PUEBLO 2102378860	PUEBLO 2102	18.8567896		Napa	Tier 3	TRUE	TRUE	TRUE
PUEBLO 2102391312	PUEBLO 2102	0.132721123		Napa	Tier 3	FALSE	TRUE	TRUE
PUEBLO 2102595938	PUEBLO 2102	0.633207696		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 2102600010	PUEBLO 2102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 2102618	PUEBLO 2102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 2102656	PUEBLO 2102	0.058055145		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 2102698	PUEBLO 2102	0.091505299		Napa	Tier 2	TRUE	TRUE	TRUE
PUEBLO 2102769868	PUEBLO 2102	0.850281839		Napa	Tier 3	FALSE	TRUE	TRUE
PUEBLO 2102773926	PUEBLO 2102	0.198741751		Napa	Tier 2	TRUE	TRUE	TRUE
PUEBLO 2102850102	PUEBLO 2102	0.033761011		Napa	Tier 2	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
PUEBLO 2102895310	PUEBLO 2102	0.62648437		Napa	Tier 3	FALSE	TRUE	TRUE
PUEBLO 2102943820	PUEBLO 2102	1.964050794		Napa	Tier 3	FALSE	TRUE	TRUE
PUEBLO 2102CB	PUEBLO 2102	0		Napa	Non-HFTD	TRUE	TRUE	FALSE
PUEBLO 2103253312	PUEBLO 2103	0.402274268		Napa	Tier 2	FALSE	TRUE	FALSE
PUEBLO 21033020	PUEBLO 2103	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 2103489964	PUEBLO 2103	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 2103678	PUEBLO 2103	34.53705137		Napa	Tier 3	TRUE	TRUE	TRUE
PUEBLO 2103694	PUEBLO 2103	0.124730001		Napa	Tier 2	FALSE	TRUE	TRUE
PUEBLO 210375612	PUEBLO 2103	0.241294754		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 210378504	PUEBLO 2103	7.518179574		Napa	Tier 3	FALSE	TRUE	TRUE
PUEBLO 210398394	PUEBLO 2103	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PUEBLO 2103CB	PUEBLO 2103	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
PURISIMA 1101104948	PURISIMA 1101	1.858539199		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
PURISIMA 110149394	PURISIMA 1101	0.861839258		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
PURISIMA 110154728	PURISIMA 1101	0.832830272		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
PURISIMA 1101CB	PURISIMA 1101	3.639600594		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
PURISIMA 1101CUSTREC	PURISIMA 1101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
PURISIMA 1101Y40	PURISIMA 1101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
PURISIMA 1101Y44	PURISIMA 1101	10.4288742		Santa Barbara	Tier 2	FALSE	TRUE	FALSE
PUTAH CREEK 1102202158	PUTAH CREEK 1102	4.155513967		Yolo	Tier 2	TRUE	TRUE	TRUE
PUTAH CREEK 110242982	PUTAH CREEK 1102	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PUTAH CREEK 110246012	PUTAH CREEK 1102	0.466306983		Solano	Tier 2	TRUE	TRUE	TRUE
PUTAH CREEK 110258340	PUTAH CREEK 1102	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PUTAH CREEK 110264044	PUTAH CREEK 1102	5.521421801		Solano	Tier 2	TRUE	TRUE	TRUE
PUTAH CREEK 110267858	PUTAH CREEK 1102	10.94397775		Solano	Tier 2	TRUE	TRUE	TRUE
PUTAH CREEK 1102710384	PUTAH CREEK 1102	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PUTAH CREEK 11028352	PUTAH CREEK 1102	5.51470198		Yolo	Tier 2	TRUE	TRUE	TRUE
PUTAH CREEK 1102CB	PUTAH CREEK 1102	0		Yolo	Non-HFTD	TRUE	TRUE	FALSE
PUTAH CREEK 11033783	PUTAH CREEK 1103	0.305688291		Solano	Tier 2	TRUE	TRUE	TRUE
PUTAH CREEK 11038362	PUTAH CREEK 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PUTAH CREEK 110385768	PUTAH CREEK 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
PUTAH CREEK 110396792	PUTAH CREEK 1103	3.455269463		Solano	Tier 2	TRUE	TRUE	TRUE
PUTAH CREEK 1103CB	PUTAH CREEK 1103	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PUTAH CREEK 11052777	PUTAH CREEK 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PUTAH CREEK 110537280	PUTAH CREEK 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PUTAH CREEK 1105399050	PUTAH CREEK 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PUTAH CREEK 110546162	PUTAH CREEK 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PUTAH CREEK 1105617260	PUTAH CREEK 1105	1.076052521		Yolo	Tier 2	FALSE	TRUE	TRUE
PUTAH CREEK 1105665952	PUTAH CREEK 1105	0.060491097		Yolo	Tier 2	FALSE	TRUE	TRUE
PUTAH CREEK 1105748272	PUTAH CREEK 1105	0.643361852		Yolo	Tier 2	FALSE	TRUE	TRUE
PUTAH CREEK 11058812	PUTAH CREEK 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PUTAH CREEK 110594238	PUTAH CREEK 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PUTAH CREEK 1105CB	PUTAH CREEK 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
PUTAH CREEK 1105CUS3107	PUTAH CREEK 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
RACETRACK 170310850	RACETRACK 1703	0.58546152		Tuolumne	Tier 2	FALSE	TRUE	TRUE
RACETRACK 170310870	RACETRACK 1703	1.82456488		Tuolumne	Tier 2	FALSE	TRUE	TRUE
RACETRACK 170311270	RACETRACK 1703	12.44233289		Tuolumne	Tier 2	FALSE	TRUE	TRUE
RACETRACK 17032553	RACETRACK 1703	0.842379661		Tuolumne	Tier 2	FALSE	TRUE	TRUE
RACETRACK 17036014	RACETRACK 1703	6.834765082		Tuolumne	Tier 2	FALSE	TRUE	TRUE
RACETRACK 1703759144	RACETRACK 1703	9.077106719		Tuolumne	Tier 2	FALSE	TRUE	TRUE
RACETRACK 17038120	RACETRACK 1703	8.717802323		Tuolumne	Tier 3	FALSE	TRUE	TRUE
RACETRACK 1703CB	RACETRACK 1703	15.66156551		Tuolumne	Tier 2	FALSE	TRUE	TRUE
RACETRACK 170455798	RACETRACK 1704	22.92157641		Tuolumne	Tier 2	FALSE	TRUE	TRUE
RACETRACK 1704CB	RACETRACK 1704	22.46579836		Tuolumne	Tier 2	FALSE	TRUE	TRUE
RADUM 1101CB	RADUM 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
RADUM 1102CB	RADUM 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
RADUM 1105420576	RADUM 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
RADUM 1105806392	RADUM 1105	3.038755795		Alameda	Tier 3	FALSE	TRUE	TRUE
RADUM 1105CB	RADUM 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
RADUM 1105MR277	RADUM 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1103508780	RAINBOW 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 110363342	RAINBOW 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1103802310	RAINBOW 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1103895546	RAINBOW 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1103CB	RAINBOW 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 110556456	RAINBOW 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1105CB	RAINBOW 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1105R9550	RAINBOW 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1106367670	RAINBOW 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 110694792	RAINBOW 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1106CB	RAINBOW 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1106D2116	RAINBOW 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1106D4879	RAINBOW 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1106D7399	RAINBOW 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1106R104	RAINBOW 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1106R1440	RAINBOW 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1106R1500	RAINBOW 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1106R251	RAINBOW 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1106R430	RAINBOW 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RAINBOW 1106R610	RAINBOW 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RALSTON 1101100040	RALSTON 1101	0.427817492		San Mateo	Tier 3	FALSE	TRUE	FALSE
RALSTON 1101420730	RALSTON 1101	0.671370449		San Mateo	Tier 2	FALSE	TRUE	TRUE
RALSTON 110148936	RALSTON 1101	4.645142324		San Mateo	Tier 2	FALSE	TRUE	TRUE
RALSTON 1101836528	RALSTON 1101	2.917980845		San Mateo	Tier 2	FALSE	TRUE	FALSE
RALSTON 1101CB	RALSTON 1101	0.290397546		San Mateo	Tier 2	FALSE	TRUE	TRUE
RALSTON 11021601	RALSTON 1102	0.012854287		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
RALSTON 11022028	RALSTON 1102	1.922472516		San Mateo	Tier 2	FALSE	TRUE	TRUE
RALSTON 11029126	RALSTON 1102	0.952966296		San Mateo	Tier 2	FALSE	TRUE	TRUE
RALSTON 1102CB	RALSTON 1102	1.025926517		San Mateo	Tier 2	FALSE	TRUE	TRUE
RANCHERS COTTON 1000CB	RANCHERS COTTON 1000	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RANCHERS COTTON 1101323356	RANCHERS COTTON 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RANCHERS COTTON 110149814	RANCHERS COTTON 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RANCHERS COTTON 110179852	RANCHERS COTTON 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RANCHERS COTTON 1101CB	RANCHERS COTTON 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RANDOLPH 0401CB	RANDOLPH 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
RANDOLPH 0402CB	RANDOLPH 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
RANDOLPH 0403CB	RANDOLPH 0403	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
RAWSON 11031486	RAWSON 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
RAWSON 11033314	RAWSON 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
RAWSON 1103428534	RAWSON 1103	2.745023441		Tehama	Tier 2	FALSE	TRUE	TRUE
RAWSON 110385334	RAWSON 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
RAWSON 11039052	RAWSON 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
RAWSON 1103CB	RAWSON 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
RED BLUFF 11011334	RED BLUFF 1101	1.308122514		Tehama	Tier 2	TRUE	TRUE	TRUE
RED BLUFF 11011556	RED BLUFF 1101	38.69641623		Tehama	Tier 2	FALSE	TRUE	TRUE
RED BLUFF 1101453972	RED BLUFF 1101	9.848651025		Tehama	Tier 2	FALSE	TRUE	TRUE
RED BLUFF 1101718428	RED BLUFF 1101	0.264189764		Tehama	Tier 2	FALSE	TRUE	FALSE
RED BLUFF 110176020	RED BLUFF 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
RED BLUFF 1101CB	RED BLUFF 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
RED BLUFF 1102CB	RED BLUFF 1102	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
RED BLUFF 11031702	RED BLUFF 1103	16.71240312		Tehama	Tier 2	FALSE	TRUE	FALSE
RED BLUFF 1103CB	RED BLUFF 1103	0.086783593		Tehama	Tier 2	TRUE	TRUE	TRUE
RED BLUFF 11041302	RED BLUFF 1104	13.49172284		Tehama	Tier 2	FALSE	TRUE	TRUE
RED BLUFF 1104135854	RED BLUFF 1104	1.413838928		Tehama	Tier 2	FALSE	TRUE	FALSE
RED BLUFF 11041566	RED BLUFF 1104	11.25063076		Tehama	Tier 2	FALSE	TRUE	FALSE
RED BLUFF 11041630	RED BLUFF 1104	1.911144049		Tehama	Tier 2	FALSE	TRUE	TRUE
RED BLUFF 110451238	RED BLUFF 1104	38.06511675		Tehama	Tier 2	FALSE	TRUE	TRUE
RED BLUFF 1104CB	RED BLUFF 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
RED BLUFF 1105146070	RED BLUFF 1105	10.28418813		Tehama	Tier 2	FALSE	TRUE	TRUE
RED BLUFF 11051564	RED BLUFF 1105	1.150200339		Tehama	Tier 2	FALSE	TRUE	TRUE
RED BLUFF 1105161818	RED BLUFF 1105	0.008020496		Tehama	Tier 2	FALSE	TRUE	TRUE
RED BLUFF 110529222	RED BLUFF 1105	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
RED BLUFF 1105494814	RED BLUFF 1105	3.465580624		Tehama	Tier 2	FALSE	TRUE	FALSE
RED BLUFF 110585632	RED BLUFF 1105	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
RED BLUFF 1105CB	RED BLUFF 1105	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
REDBUD 1101323962	REDBUD 1101	15.44287638		Lake	Tier 3	TRUE	TRUE	TRUE
REDBUD 1101400	REDBUD 1101	0.772871498		Lake	Tier 2	FALSE	TRUE	TRUE
REDBUD 1101454	REDBUD 1101	5.534917811		Lake	Tier 3	TRUE	TRUE	TRUE
REDBUD 1101558812	REDBUD 1101	0.624598464		Lake	Tier 2	FALSE	TRUE	TRUE
REDBUD 1101708166	REDBUD 1101	4.764802492		Lake	Tier 3	FALSE	TRUE	TRUE
REDBUD 1101754544	REDBUD 1101	4.159684021		Lake	Tier 3	TRUE	TRUE	TRUE
REDBUD 110191960	REDBUD 1101	6.359286489		Lake	Tier 2	TRUE	TRUE	TRUE
REDBUD 1101CB	REDBUD 1101	3.244093838		Lake	Tier 2	TRUE	TRUE	TRUE
REDBUD 11021212	REDBUD 1102	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
REDBUD 11022013	REDBUD 1102	0.124735269		Lake	Tier 2	FALSE	TRUE	TRUE
REDBUD 1102432	REDBUD 1102	1.022099422		Lake	Tier 2	TRUE	TRUE	TRUE
REDBUD 110244119	REDBUD 1102	0.241937614		Lake	Tier 2	FALSE	TRUE	TRUE
REDBUD 1102510	REDBUD 1102	3.379292017		Lake	Tier 2	TRUE	TRUE	TRUE
REDBUD 1102523244	REDBUD 1102	15.52642116		Lake	Tier 3	TRUE	TRUE	TRUE
REDBUD 1102922	REDBUD 1102	7.574990379		Lake	Tier 2	FALSE	TRUE	TRUE
REDBUD 1102CB	REDBUD 1102	0.714372938		Lake	Tier 2	FALSE	TRUE	TRUE
REDWOOD CITY 0402CB	REDWOOD CITY 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 0403271809	REDWOOD CITY 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 0403CB	REDWOOD CITY 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 0404CB	REDWOOD CITY 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 0405CB	REDWOOD CITY 0405	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 0406913566	REDWOOD CITY 0406	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 0406CB	REDWOOD CITY 0406	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 0408CB	REDWOOD CITY 0408	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 0409CB	REDWOOD CITY 0409	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 041054820	REDWOOD CITY 0410	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 0410CB	REDWOOD CITY 0410	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 1101CB	REDWOOD CITY 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 1102CB	REDWOOD CITY 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 1103CB	REDWOOD CITY 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 110448466	REDWOOD CITY 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 110476624	REDWOOD CITY 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 1104CB	REDWOOD CITY 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 11054828	REDWOOD CITY 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 1105742744	REDWOOD CITY 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 11058992	REDWOOD CITY 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REDWOOD CITY 1105CB	REDWOOD CITY 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 110181110	REEDLEY 1101	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 110186412	REEDLEY 1101	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 110198400	REEDLEY 1101	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 1101CB	REEDLEY 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 1104218022	REEDLEY 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 1104243924	REEDLEY 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 1104274990	REEDLEY 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 11047892F	REEDLEY 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 1104882458	REEDLEY 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 1104887932	REEDLEY 1104	1.688096903		Tulare	Tier 2	FALSE	TRUE	FALSE
REEDLEY 110493222	REEDLEY 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 1104CB	REEDLEY 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 11067260	REEDLEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 11067270	REEDLEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 110676043	REEDLEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 11067913F	REEDLEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 1106CB	REEDLEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 111053586	REEDLEY 1110	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 11107470	REEDLEY 1110	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 1110CB	REEDLEY 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 1112226548	REEDLEY 1112	0.629214764		Tulare	Tier 2	FALSE	TRUE	FALSE
REEDLEY 111246926	REEDLEY 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 1112477952	REEDLEY 1112	0.090712472		Tulare	Tier 2	FALSE	TRUE	FALSE
REEDLEY 11127013	REEDLEY 1112	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 11127230	REEDLEY 1112	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 11127240	REEDLEY 1112	0.061785085		Fresno	Tier 2	FALSE	TRUE	TRUE
REEDLEY 11127917F	REEDLEY 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 11127919F	REEDLEY 1112	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 111297364	REEDLEY 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
REEDLEY 1112CB	REEDLEY 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 21011146	RENFRO 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 2101134422	RENFRO 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 21012252	RENFRO 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 21014863	RENFRO 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 21014889	RENFRO 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 2101CB	RENFRO 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 21024923	RENFRO 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 210256408	RENFRO 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 2102CB	RENFRO 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 21033351	RENFRO 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
RENFRO 2103372938	RENFRO 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 21034686	RENFRO 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 2103CB	RENFRO 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 2105107332	RENFRO 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 21051594	RENFRO 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 21054828	RENFRO 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 2105536906	RENFRO 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 210587494	RENFRO 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 2105CB	RENFRO 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 21071388	RENFRO 2107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 2107361292	RENFRO 2107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 2107454076	RENFRO 2107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 2107515188	RENFRO 2107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 210754958	RENFRO 2107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 210797560	RENFRO 2107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RENFRO 2107CB	RENFRO 2107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RESEARCH 2101CB	RESEARCH 2101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RESEARCH 2101D576R	RESEARCH 2101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RESEARCH 2102183888	RESEARCH 2102	1.028573717		Contra Costa	Tier 3	FALSE	TRUE	TRUE
RESEARCH 210263274	RESEARCH 2102	0.745285415		Contra Costa	Tier 3	FALSE	TRUE	TRUE
RESEARCH 2102644462	RESEARCH 2102	0.395757249		Contra Costa	Tier 3	FALSE	TRUE	TRUE
RESEARCH 2102CB	RESEARCH 2102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RESEARCH 2102D537R	RESEARCH 2102	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
RESERVATION ROAD 1101370948	RESERVATION ROAD 1101	3.2176465		Monterey	Tier 2	FALSE	TRUE	TRUE
RESERVATION ROAD 1101383718	RESERVATION ROAD 1101	21.06352205		Monterey	Tier 2	FALSE	TRUE	TRUE
RESERVATION ROAD 1101975548	RESERVATION ROAD 1101	4.546184362		Monterey	Tier 2	FALSE	TRUE	TRUE
RESERVATION ROAD 1101CB	RESERVATION ROAD 1101	0.268381502		Monterey	Tier 2	FALSE	TRUE	TRUE
RESERVATION ROAD 110222136	RESERVATION ROAD 1102	1.32404361		Monterey	Tier 2	FALSE	TRUE	TRUE
RESERVATION ROAD 11023030	RESERVATION ROAD 1102	7.066906128		Monterey	Tier 2	FALSE	TRUE	TRUE
RESERVATION ROAD 11023032	RESERVATION ROAD 1102	3.577439261		Monterey	Tier 2	FALSE	TRUE	TRUE
RESERVATION ROAD 1102303870	RESERVATION ROAD 1102	0.417216818		Monterey	Tier 2	FALSE	TRUE	FALSE
RESERVATION ROAD 1102CB	RESERVATION ROAD 1102	7.419525641		Monterey	Tier 2	FALSE	TRUE	TRUE
RESERVE OIL 1101CB	RESERVE OIL 1101	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
RICE 1101247272	RICE 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
RICE 11013102	RICE 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
RICE 110146616	RICE 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
RICE 110175402	RICE 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
RICE 110197036	RICE 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
RICE 1101CB	RICE 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
RICE 11023000	RICE 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
RICE 110230422	RICE 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
RICE 11023104	RICE 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
RICE 110261906	RICE 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
RICE 110284580	RICE 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
RICE 1102CB	RICE 1102	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
RICE 11033032	RICE 1103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
RICE 11033106	RICE 1103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
RICE 110348674	RICE 1103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
RICE 110359260	RICE 1103	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
RICE 110379200	RICE 1103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
RICE 1103CB	RICE 1103	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
RICE 110430010	RICE 1104	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
RICE 11043034	RICE 1104	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
RICE 1104CB	RICE 1104	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND Q 0401563674	RICHMOND Q 0401	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
RICHMOND Q 0402895422	RICHMOND Q 0402	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
RICHMOND R 1118BR132	RICHMOND R 1118	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1118CB	RICHMOND R 1118	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
RICHMOND R 1119BR290	RICHMOND R 1119	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1119BR294	RICHMOND R 1119	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1119CB	RICHMOND R 1119	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1120BR328	RICHMOND R 1120	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1120CB	RICHMOND R 1120	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1121BR210	RICHMOND R 1121	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1121CB	RICHMOND R 1121	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1122BR02	RICHMOND R 1122	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1122CB	RICHMOND R 1122	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1123CB	RICHMOND R 1123	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1124459242	RICHMOND R 1124	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
RICHMOND R 1124BR300	RICHMOND R 1124	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1124BR302	RICHMOND R 1124	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1124CB	RICHMOND R 1124	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1125BR308	RICHMOND R 1125	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1125BR310	RICHMOND R 1125	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1125CB	RICHMOND R 1125	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1126BR182	RICHMOND R 1126	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
RICHMOND R 1126BR242	RICHMOND R 1126	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
RICHMOND R 1126BR274	RICHMOND R 1126	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1126BR276	RICHMOND R 1126	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1126BR278	RICHMOND R 1126	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1126CB	RICHMOND R 1126	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1127563200	RICHMOND R 1127	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1127805232	RICHMOND R 1127	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1127BR104	RICHMOND R 1127	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1127BR214	RICHMOND R 1127	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1127BR216	RICHMOND R 1127	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1127BR232	RICHMOND R 1127	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1127BR350	RICHMOND R 1127	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1127CB	RICHMOND R 1127	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1128154602	RICHMOND R 1128	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1128BR130	RICHMOND R 1128	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1128BR324	RICHMOND R 1128	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
RICHMOND R 1128CB	RICHMOND R 1128	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
RICHMOND R 1129439370	RICHMOND R 1129	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1129557351	RICHMOND R 1129	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1129BR148	RICHMOND R 1129	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1129BR218	RICHMOND R 1129	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1129BR220	RICHMOND R 1129	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1129BR224	RICHMOND R 1129	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1129BR348	RICHMOND R 1129	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1129CB	RICHMOND R 1129	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE

Workpaper 032
Pacific Gas and Electric Company
Electrical Undergrounding Program
Circuit Segment List
(Continued)

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
RICHMOND R 1130BR144	RICHMOND R 1130	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
RICHMOND R 1130BR162	RICHMOND R 1130	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
RICHMOND R 1130BR174	RICHMOND R 1130	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
RICHMOND R 1130BR188	RICHMOND R 1130	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
RICHMOND R 1130CB	RICHMOND R 1130	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
RIDGE 0401CB	RIDGE 0401	2.655934836		Alameda	Tier 2	FALSE	TRUE	TRUE
RIDGE 0402199970	RIDGE 0402	1.762578564		Alameda	Tier 2	FALSE	TRUE	FALSE
RINCON 1101146053	RINCON 1101	16.82844657		Sonoma	Tier 3	TRUE	TRUE	TRUE
RINCON 1101205854	RINCON 1101	0.226204822		Sonoma	Tier 2	FALSE	TRUE	TRUE
RINCON 1101576	RINCON 1101	3.79477029		Sonoma	Tier 3	TRUE	TRUE	TRUE
RINCON 1101580	RINCON 1101	0.260602991		Sonoma	Tier 2	TRUE	TRUE	TRUE
RINCON 1101839669	RINCON 1101	0.60296687		Sonoma	Tier 3	TRUE	TRUE	FALSE
RINCON 1101CB	RINCON 1101	0.505901614		Sonoma	Tier 2	TRUE	TRUE	TRUE
RINCON 1102228730	RINCON 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
RINCON 1102640	RINCON 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
RINCON 1102644	RINCON 1102	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
RINCON 1102644432	RINCON 1102	0.792111553		Sonoma	Tier 3	FALSE	TRUE	FALSE
RINCON 1102666	RINCON 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
RINCON 110275816	RINCON 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
RINCON 1102782389	RINCON 1102	0.264022258		Sonoma	Tier 2	FALSE	TRUE	TRUE
RINCON 1102CB	RINCON 1102	1.569293051		Sonoma	Tier 2	TRUE	TRUE	TRUE
RINCON 1103198	RINCON 1103	6.370383256		Sonoma	Tier 3	TRUE	TRUE	TRUE
RINCON 1103472	RINCON 1103	2.93944358		Sonoma	Tier 2	TRUE	TRUE	TRUE
RINCON 1103474	RINCON 1103	6.381989399		Sonoma	Tier 3	TRUE	TRUE	TRUE
RINCON 11035152	RINCON 1103	1.66840799		Sonoma	Tier 3	TRUE	TRUE	TRUE
RINCON 1103568	RINCON 1103	8.671682481		Sonoma	Tier 3	TRUE	TRUE	TRUE
RINCON 1103649194	RINCON 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
RINCON 1103655192	RINCON 1103	3.938893037		Sonoma	Tier 3	FALSE	TRUE	FALSE
RINCON 1103925054	RINCON 1103	11.90459426		Sonoma	Tier 3	TRUE	TRUE	TRUE
RINCON 1103CB	RINCON 1103	3.111553736		Sonoma	Tier 3	TRUE	TRUE	TRUE
RINCON 1104207458	RINCON 1104	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
RINCON 1104786782	RINCON 1104	1.920520342		Sonoma	Tier 3	FALSE	TRUE	TRUE
RINCON 110499918	RINCON 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
RINCON 1104CB	RINCON 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 11012638	RIO BRAVO 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 1101CB	RIO BRAVO 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 11021578	RIO BRAVO 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 11022676	RIO BRAVO 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 1102422657	RIO BRAVO 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 1102CB	RIO BRAVO 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 11034349	RIO BRAVO 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 1103CB	RIO BRAVO 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 110432450	RIO BRAVO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 1104846352	RIO BRAVO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 1104CB	RIO BRAVO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 11062635	RIO BRAVO 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 1106702014	RIO BRAVO 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 11067273	RIO BRAVO 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 1106CB	RIO BRAVO 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO BRAVO 1106CUS7788	RIO BRAVO 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
RIO DELL 110138332	RIO DELL 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
RIO DELL 110192712	RIO DELL 1101	0		Humboldt	Non-HFTD	TRUE	TRUE	FALSE
RIO DELL 1101CB	RIO DELL 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
RIO DELL 11021504	RIO DELL 1102	10.63524495		Humboldt	Tier 2	FALSE	TRUE	TRUE
RIO DELL 11024230	RIO DELL 1102	22.43683035		Humboldt	Tier 2	FALSE	TRUE	FALSE
RIO DELL 11026151	RIO DELL 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
RIO DELL 110270960	RIO DELL 1102	3.574388144		Humboldt	Tier 2	FALSE	TRUE	TRUE
RIO DELL 11027124	RIO DELL 1102	0.573843947		Humboldt	Tier 2	FALSE	TRUE	FALSE
RIO DELL 110275970	RIO DELL 1102	7.118023452		Humboldt	Tier 2	FALSE	TRUE	TRUE
RIO DELL 1102772210	RIO DELL 1102	0.354010265		Humboldt	Tier 2	FALSE	TRUE	TRUE
RIO DELL 11028768	RIO DELL 1102	0.603814934		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
RIO DELL 11028852	RIO DELL 1102	4.055634806		Humboldt	Tier 2	FALSE	TRUE	TRUE
RIO DELL 1102CB	RIO DELL 1102	0.616654545		Humboldt	Tier 2	FALSE	TRUE	TRUE
RIPON 1701397478	RIPON 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 1701723166	RIPON 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 1701848930	RIPON 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 17019498	RIPON 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 1701CB	RIPON 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 170213544	RIPON 1702	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 170213546	RIPON 1702	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 17024077	RIPON 1702	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 17025312	RIPON 1702	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 1702CB	RIPON 1702	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 17036176	RIPON 1703	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 17036178	RIPON 1703	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 17039814	RIPON 1703	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 1703CB	RIPON 1703	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 1704343465	RIPON 1704	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 1704464030	RIPON 1704	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIPON 1704CB	RIPON 1704	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RISING RIVER 11011530	RISING RIVER 1101	10.25766366		Shasta	Tier 2	FALSE	TRUE	TRUE
RISING RIVER 11011532	RISING RIVER 1101	3.003790547		Shasta	Tier 2	FALSE	TRUE	TRUE
RISING RIVER 11019032	RISING RIVER 1101	21.70822233		Shasta	Tier 2	FALSE	TRUE	FALSE
RISING RIVER 1101CB	RISING RIVER 1101	8.562457194		Shasta	Tier 2	FALSE	TRUE	TRUE
RIVER ROCK 1101CB	RIVER ROCK 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171120911	RIVERBANK 1711	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 1711335302	RIVERBANK 1711	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171190440	RIVERBANK 1711	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 1711CB	RIVERBANK 1711	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 1712130318	RIVERBANK 1712	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 17127154	RIVERBANK 1712	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171290100	RIVERBANK 1712	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171290140	RIVERBANK 1712	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 1712CB	RIVERBANK 1712	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171338756	RIVERBANK 1713	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171338800	RIVERBANK 1713	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 1713435672	RIVERBANK 1713	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171357168	RIVERBANK 1713	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 17138160	RIVERBANK 1713	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 17139000	RIVERBANK 1713	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 1713CB	RIVERBANK 1713	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
RIVERBANK 171438382	RIVERBANK 1714	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171439736	RIVERBANK 1714	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171466284	RIVERBANK 1714	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171490210	RIVERBANK 1714	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 17149150	RIVERBANK 1714	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171499660	RIVERBANK 1714	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 1714CB	RIVERBANK 1714	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171549752	RIVERBANK 1715	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171575582	RIVERBANK 1715	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 17159020	RIVERBANK 1715	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 17159030	RIVERBANK 1715	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 17159850	RIVERBANK 1715	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 1715CB	RIVERBANK 1715	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 1716412688	RIVERBANK 1716	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 171690450	RIVERBANK 1716	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 17169050	RIVERBANK 1716	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 17169170	RIVERBANK 1716	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
RIVERBANK 1716CB	RIVERBANK 1716	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
ROB ROY 210410298	ROB ROY 2104	10.73146472		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
ROB ROY 210410714	ROB ROY 2104	13.57524361		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
ROB ROY 210410930	ROB ROY 2104	0.92867241		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
ROB ROY 210410954	ROB ROY 2104	11.57270585		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
ROB ROY 210410960	ROB ROY 2104	17.51532467		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
ROB ROY 210412582	ROB ROY 2104	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
ROB ROY 210412596	ROB ROY 2104	6.913591367		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
ROB ROY 2104464844	ROB ROY 2104	3.341337438		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
ROB ROY 21045304	ROB ROY 2104	3.078453374		Santa Cruz	Tier 2	FALSE	TRUE	FALSE
ROB ROY 2104588930	ROB ROY 2104	4.686866781		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
ROB ROY 210467520	ROB ROY 2104	3.291141875		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
ROB ROY 2104974520	ROB ROY 2104	16.13514879		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
ROB ROY 2104CB	ROB ROY 2104	9.665527257		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
ROB ROY 210511028	ROB ROY 2105	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
ROB ROY 210512474	ROB ROY 2105	3.080998175		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
ROB ROY 210512586	ROB ROY 2105	1.74970843		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
ROB ROY 210538430	ROB ROY 2105	3.473551337		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
ROB ROY 2105439972	ROB ROY 2105	8.767786667		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
ROB ROY 21055090	ROB ROY 2105	12.13006078		Santa Cruz	Tier 3	FALSE	TRUE	FALSE
ROB ROY 210571630	ROB ROY 2105	1.123308309		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
ROB ROY 2105796388	ROB ROY 2105	5.468635264		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
ROB ROY 21058281	ROB ROY 2105	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
ROB ROY 2105931192	ROB ROY 2105	1.865949846		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
ROB ROY 2105CB	ROB ROY 2105	0.559391897		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
ROCKLIN 1101CB	ROCKLIN 1101	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
ROCKLIN 11022222	ROCKLIN 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
ROCKLIN 110232724	ROCKLIN 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
ROCKLIN 1102CB	ROCKLIN 1102	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
ROCKLIN 1103CB	ROCKLIN 1103	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
ROCKLIN 110450090	ROCKLIN 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
ROCKLIN 1104CB	ROCKLIN 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
ROSEDALE 11012154	ROSEDALE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ROSEDALE 1101CB	ROSEDALE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ROSEDALE 2102CB	ROSEDALE 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 110136572	ROSSMOOR 1101	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
ROSSMOOR 110168920	ROSSMOOR 1101	6.082980889		Contra Costa	Tier 3	FALSE	TRUE	TRUE
ROSSMOOR 11018132	ROSSMOOR 1101	2.495269512		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ROSSMOOR 110181770	ROSSMOOR 1101	0.028154935		Contra Costa	Tier 2	TRUE	TRUE	TRUE
ROSSMOOR 110192164	ROSSMOOR 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1101CB	ROSSMOOR 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1101L501R	ROSSMOOR 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1101L503R	ROSSMOOR 1101	4.26912355		Contra Costa	Tier 3	FALSE	TRUE	TRUE
ROSSMOOR 1102457174	ROSSMOOR 1102	0.446903822		Contra Costa	Tier 3	FALSE	TRUE	TRUE
ROSSMOOR 1102CB	ROSSMOOR 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1103CB	ROSSMOOR 1103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1103W514R	ROSSMOOR 1103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1104305926	ROSSMOOR 1104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 110479146	ROSSMOOR 1104	0.052133184		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ROSSMOOR 1104892332	ROSSMOOR 1104	0.248310595		Contra Costa	Tier 2	FALSE	TRUE	FALSE
ROSSMOOR 110493664	ROSSMOOR 1104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1104CB	ROSSMOOR 1104	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
ROSSMOOR 1104L530R	ROSSMOOR 1104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 110542088	ROSSMOOR 1105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1105CB	ROSSMOOR 1105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1105W564R	ROSSMOOR 1105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1106166550	ROSSMOOR 1106	0.250027011		Contra Costa	Tier 2	FALSE	TRUE	FALSE
ROSSMOOR 1106384042	ROSSMOOR 1106	1.34861347		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ROSSMOOR 110639424	ROSSMOOR 1106	0.739452092		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ROSSMOOR 110654472	ROSSMOOR 1106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 110665858	ROSSMOOR 1106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1106841730	ROSSMOOR 1106	0.42178305		Contra Costa	Tier 2	FALSE	TRUE	FALSE
ROSSMOOR 1106CB	ROSSMOOR 1106	0.628393758		Contra Costa	Tier 3	FALSE	TRUE	TRUE
ROSSMOOR 1106L522R	ROSSMOOR 1106	0.040296155		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ROSSMOOR 1106L541R	ROSSMOOR 1106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1106L552R	ROSSMOOR 1106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1107857172	ROSSMOOR 1107	0.032026763		Contra Costa	Tier 3	FALSE	TRUE	TRUE
ROSSMOOR 110798488	ROSSMOOR 1107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1107CB	ROSSMOOR 1107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 110845268	ROSSMOOR 1108	2.245422567		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ROSSMOOR 1108543356	ROSSMOOR 1108	0.894971548		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ROSSMOOR 1108CB	ROSSMOOR 1108	1.967815938		Contra Costa	Tier 3	FALSE	TRUE	TRUE
ROSSMOOR 1109266602	ROSSMOOR 1109	0.016173817		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ROSSMOOR 1109724062	ROSSMOOR 1109	0.170703986		Contra Costa	Tier 2	FALSE	TRUE	TRUE
ROSSMOOR 110982962	ROSSMOOR 1109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1109847274	ROSSMOOR 1109	6.856144467		Contra Costa	Tier 3	FALSE	TRUE	TRUE
ROSSMOOR 1109890534	ROSSMOOR 1109	0.200994353		Contra Costa	Tier 3	FALSE	TRUE	FALSE
ROSSMOOR 1109892648	ROSSMOOR 1109	0.240165399		Contra Costa	Tier 3	FALSE	TRUE	TRUE
ROSSMOOR 1109961536	ROSSMOOR 1109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROSSMOOR 1109CB	ROSSMOOR 1109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
ROUGH AND READY ISLA 110211559	ROUGH AND READY ISLA 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
ROUGH AND READY ISLA 11022146	ROUGH AND READY ISLA 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
ROUGH AND READY ISLA 11025726	ROUGH AND READY ISLA 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
ROUGH AND READY ISLA 110295784	ROUGH AND READY ISLA 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
ROUGH AND READY ISLA 1102CB	ROUGH AND READY ISLA 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
ROUND MOUNTAIN 1101CB	ROUND MOUNTAIN 1101	0.015504083		Shasta	Tier 2	FALSE	TRUE	TRUE
RUSS RANCH 110196276	RUSS RANCH 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
RUSS RANCH 1101CB	RUSS RANCH 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
RUSSELL (SMUD) 210141212	RUSSELL (SMUD) 2101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
RUSSELL (SMUD) 2101CB	RUSSELL (SMUD) 2101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
RUSSELL 0401CB	RUSSELL 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
RUSSELL 0402CB	RUSSELL 0402	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110122052	SALINAS 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 1101932856	SALINAS 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 1101CB	SALINAS 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110232832	SALINAS 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110245272	SALINAS 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 1102512906	SALINAS 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110297880	SALINAS 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 1102CB	SALINAS 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110322382	SALINAS 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110322384	SALINAS 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110368200	SALINAS 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110393720	SALINAS 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 1103CB	SALINAS 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110422050	SALINAS 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 11043018	SALINAS 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110455450	SALINAS 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 1104895672	SALINAS 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 1104CB	SALINAS 1104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110522408	SALINAS 1105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110525049	SALINAS 1105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 1105CB	SALINAS 1105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110622288	SALINAS 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110624521	SALINAS 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110638220	SALINAS 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110678264	SALINAS 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 1106CB	SALINAS 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110722414	SALINAS 1107	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110745054	SALINAS 1107	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 1107CB	SALINAS 1107	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 1108CB	SALINAS 1108	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 110997654	SALINAS 1109	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALINAS 1109CB	SALINAS 1109	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SALMON CREEK 1101194	SALMON CREEK 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SALMON CREEK 1101196	SALMON CREEK 1101	3.635504487		Sonoma	Tier 2	TRUE	TRUE	FALSE
SALMON CREEK 1101242382	SALMON CREEK 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SALMON CREEK 110137368	SALMON CREEK 1101	7.010872746		Sonoma	Tier 2	FALSE	TRUE	FALSE
SALMON CREEK 1101460	SALMON CREEK 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SALMON CREEK 1101567868	SALMON CREEK 1101	5.14595299		Sonoma	Tier 3	FALSE	TRUE	FALSE
SALMON CREEK 1101571972	SALMON CREEK 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SALMON CREEK 1101654	SALMON CREEK 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SALMON CREEK 1101660	SALMON CREEK 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SALMON CREEK 1101668	SALMON CREEK 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SALMON CREEK 1101676	SALMON CREEK 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SALMON CREEK 110188998	SALMON CREEK 1101	6.441698879		Sonoma	Tier 3	FALSE	TRUE	TRUE
SALMON CREEK 1101CB	SALMON CREEK 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SALT SPRINGS 210110416	SALT SPRINGS 2101	0.689935552		Amador	Tier 2	FALSE	TRUE	TRUE
SALT SPRINGS 21011216	SALT SPRINGS 2101	5.480815928		Amador	Tier 2	FALSE	TRUE	TRUE
SALT SPRINGS 21011232	SALT SPRINGS 2101	9.081153584		Calaveras	Tier 2	FALSE	TRUE	TRUE
SALT SPRINGS 210117012	SALT SPRINGS 2101	1.904435417		Alpine	Non-HFTD	FALSE	FALSE	FALSE
SALT SPRINGS 21013116	SALT SPRINGS 2101	1.040398851		Calaveras	Tier 2	FALSE	TRUE	TRUE
SALT SPRINGS 2101TS4913	SALT SPRINGS 2101	3.768942697		Calaveras	Tier 2	FALSE	TRUE	FALSE
SALT SPRINGS 21023118	SALT SPRINGS 2102	0.054150987		Calaveras	Tier 2	FALSE	TRUE	TRUE
SALT SPRINGS 21023142	SALT SPRINGS 2102	20.03082874		Calaveras	Tier 3	FALSE	TRUE	TRUE
SALT SPRINGS 210237300	SALT SPRINGS 2102	6.917202489		Calaveras	Tier 3	FALSE	TRUE	TRUE
SALT SPRINGS 21024796	SALT SPRINGS 2102	7.805102979		Calaveras	Tier 3	FALSE	TRUE	TRUE
SALT SPRINGS 21028442	SALT SPRINGS 2102	12.20453066		Calaveras	Tier 3	FALSE	TRUE	TRUE
SALT SPRINGS 210297924	SALT SPRINGS 2102	5.198068825		Calaveras	Tier 3	FALSE	TRUE	TRUE
SAN ARDO 1101610148	SAN ARDO 1101	1.118553759		Monterey	Tier 2	FALSE	TRUE	TRUE
SAN ARDO 1101650772	SAN ARDO 1101	0.701955997		Monterey	Tier 2	FALSE	TRUE	FALSE
SAN ARDO 11017054	SAN ARDO 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 11017094	SAN ARDO 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 11017632	SAN ARDO 1101	0.852708574		Monterey	Tier 2	FALSE	TRUE	TRUE
SAN ARDO 11017945	SAN ARDO 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 1101824808	SAN ARDO 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 110193072	SAN ARDO 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 1101CB	SAN ARDO 1101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 1102323708	SAN ARDO 1102	2.696710338		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 1102502	SAN ARDO 1102	0.266734054		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 110265604	SAN ARDO 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 11027000	SAN ARDO 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 11027030	SAN ARDO 1102	20.68056118		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 11027066	SAN ARDO 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 110273254	SAN ARDO 1102	2.106725667		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 110283166	SAN ARDO 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 1102896438	SAN ARDO 1102	24.46411979		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 110291894	SAN ARDO 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 110294020	SAN ARDO 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN ARDO 1102CB	SAN ARDO 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN BENITO 2101295566	SAN BENITO 2101	0.552853531		San Benito	Tier 2	FALSE	TRUE	FALSE
SAN BENITO 2101355426	SAN BENITO 2101	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
SAN BENITO 210136912	SAN BENITO 2101	4.029251593		San Benito	Tier 2	FALSE	TRUE	TRUE
SAN BENITO 2101506268	SAN BENITO 2101	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
SAN BENITO 210192468	SAN BENITO 2101	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
SAN BENITO 2101CB	SAN BENITO 2101	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
SAN BENITO 21024918	SAN BENITO 2102	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
SAN BENITO 210275262	SAN BENITO 2102	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
SAN BENITO 2102CB	SAN BENITO 2102	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
SAN BENITO 2103CB	SAN BENITO 2103	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
SAN BENITO 2104785888	SAN BENITO 2104	4.452475562		San Benito	Tier 2	FALSE	TRUE	TRUE
SAN BENITO 210488772	SAN BENITO 2104	22.21159839		San Benito	Tier 2	FALSE	TRUE	TRUE
SAN BENITO 2104CB	SAN BENITO 2104	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
SAN BERNARD 1101438074	SAN BERNARD 1101	0.179280212		Kern	Tier 2	FALSE	TRUE	FALSE
SAN BERNARD 1101641042	SAN BERNARD 1101	0.990053529		Kern	Tier 2	FALSE	TRUE	TRUE

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
SAN BERNARD 1101830398	SAN BERNARD 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SAN BERNARD 1101CB	SAN BERNARD 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SAN BERNARD 1102CB	SAN BERNARD 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SAN BERNARD 1104CB	SAN BERNARD 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SAN BRUNO 040139086	SAN BRUNO 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN BRUNO 0401CB	SAN BRUNO 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN BRUNO 040265746	SAN BRUNO 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN BRUNO 0402CB	SAN BRUNO 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN BRUNO 040387798	SAN BRUNO 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN BRUNO 0403CB	SAN BRUNO 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 0401CB	SAN CARLOS 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 0402CB	SAN CARLOS 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 04039012	SAN CARLOS 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 0403CB	SAN CARLOS 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 0404CB	SAN CARLOS 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 0405CB	SAN CARLOS 0405	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 0406CB	SAN CARLOS 0406	0		San Mateo	Non-HFTD	TRUE	TRUE	FALSE
SAN CARLOS 1101CB	SAN CARLOS 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 11028932	SAN CARLOS 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 1102CB	SAN CARLOS 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 1103195306	SAN CARLOS 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 1103313472	SAN CARLOS 1103	0.027442346		San Mateo	Tier 2	FALSE	TRUE	TRUE
SAN CARLOS 1103586832	SAN CARLOS 1103	3.744234379		San Mateo	Tier 2	FALSE	TRUE	FALSE
SAN CARLOS 11039148	SAN CARLOS 1103	0.06077694		San Mateo	Tier 2	FALSE	TRUE	TRUE
SAN CARLOS 1103CB	SAN CARLOS 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 110436864	SAN CARLOS 1104	0.527135989		San Mateo	Tier 2	FALSE	TRUE	FALSE
SAN CARLOS 1104636064	SAN CARLOS 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 1104699632	SAN CARLOS 1104	3.245297411		San Mateo	Tier 2	FALSE	TRUE	FALSE
SAN CARLOS 110475210	SAN CARLOS 1104	0.378091296		San Mateo	Tier 2	FALSE	TRUE	FALSE
SAN CARLOS 110479774	SAN CARLOS 1104	0.803714575		San Mateo	Tier 2	FALSE	TRUE	TRUE
SAN CARLOS 1104833770	SAN CARLOS 1104	0.015280072		San Mateo	Tier 2	FALSE	TRUE	TRUE
SAN CARLOS 11048846	SAN CARLOS 1104	2.118982905		San Mateo	Tier 2	FALSE	TRUE	TRUE
SAN CARLOS 11048942	SAN CARLOS 1104	2.144167852		San Mateo	Tier 2	FALSE	TRUE	FALSE
SAN CARLOS 11049010	SAN CARLOS 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN CARLOS 11049052	SAN CARLOS 1104	1.439799333		San Mateo	Tier 2	FALSE	TRUE	FALSE
SAN CARLOS 1104CB	SAN CARLOS 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN #2 110310320	SAN JOAQUIN #2 1103	11.70872262		Madera	Tier 2	FALSE	TRUE	FALSE
SAN JOAQUIN #2 1103157026	SAN JOAQUIN #2 1103	3.140074972		Madera	Tier 2	FALSE	TRUE	FALSE
SAN JOAQUIN #2 1103CB	SAN JOAQUIN #2 1103	65.24904207		Madera	Tier 3	TRUE	TRUE	TRUE
SAN JOAQUIN #3 1101673480	SAN JOAQUIN #3 1101	12.54048614		Madera	Tier 3	FALSE	TRUE	TRUE
SAN JOAQUIN #3 1101751914	SAN JOAQUIN #3 1101	6.563896811		Madera	Tier 3	FALSE	TRUE	TRUE
SAN JOAQUIN #3 1101CB	SAN JOAQUIN #3 1101	5.24228945		Madera	Tier 3	FALSE	TRUE	TRUE
SAN JOAQUIN #3 110210342	SAN JOAQUIN #3 1102	1.790596578		Madera	Tier 3	FALSE	TRUE	TRUE
SAN JOAQUIN #3 1102CB	SAN JOAQUIN #3 1102	9.610078921		Madera	Tier 3	FALSE	TRUE	TRUE
SAN JOAQUIN #3 1103403515	SAN JOAQUIN #3 1103	25.77840865		Madera	Tier 3	TRUE	TRUE	TRUE
SAN JOAQUIN #3 1103CB	SAN JOAQUIN #3 1103	30.77811703		Madera	Tier 3	TRUE	TRUE	TRUE
SAN JOAQUIN 110642822	SAN JOAQUIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 110669621	SAN JOAQUIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 110683170	SAN JOAQUIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 1106CB	SAN JOAQUIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 1106D4628	SAN JOAQUIN 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 110846174	SAN JOAQUIN 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 1108874392	SAN JOAQUIN 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 1108CB	SAN JOAQUIN 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 1108R1700	SAN JOAQUIN 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 111253186	SAN JOAQUIN 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 1112873576	SAN JOAQUIN 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 1112CB	SAN JOAQUIN 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 1112D3025	SAN JOAQUIN 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 1112R1160	SAN JOAQUIN 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOAQUIN 1112R487	SAN JOAQUIN 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 0403CB	SAN JOSE A 0403	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 0404CB	SAN JOSE A 0404	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 0405CB	SAN JOSE A 0405	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 0407CB	SAN JOSE A 0407	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 0408CB	SAN JOSE A 0408	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 0410CB	SAN JOSE A 0410	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 1109CB	SAN JOSE A 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 1110CB	SAN JOSE A 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 1110XR338	SAN JOSE A 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 1110XR426	SAN JOSE A 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 1111CB	SAN JOSE A 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 111243227	SAN JOSE A 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 111281630	SAN JOSE A 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 111297886	SAN JOSE A 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 1112CB	SAN JOSE A 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 1112XR066	SAN JOSE A 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE A 1112XR428	SAN JOSE A 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1101CB	SAN JOSE B 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1102CB	SAN JOSE B 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1104CB	SAN JOSE B 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1105CB	SAN JOSE B 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1105XR238	SAN JOSE B 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1105XR504	SAN JOSE B 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1105XR506	SAN JOSE B 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1106CB	SAN JOSE B 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 110749542	SAN JOSE B 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 110769776	SAN JOSE B 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1107CB	SAN JOSE B 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1107XR020	SAN JOSE B 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1107XR464	SAN JOSE B 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 110816141	SAN JOSE B 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 110897260	SAN JOSE B 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1108CB	SAN JOSE B 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1108XR406	SAN JOSE B 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1109CB	SAN JOSE B 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1110CB	SAN JOSE B 1110	0		Santa Clara	Non-HFTD	TRUE	TRUE	FALSE
SAN JOSE B 1110XR306	SAN JOSE B 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1111CB	SAN JOSE B 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1112CB	SAN JOSE B 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1112XR280	SAN JOSE B 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE

Workpaper 032
Pacific Gas and Electric Company
Electrical Undergrounding Program
Circuit Segment List
(Continued)

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
SAN JOSE B 1112XR284	SAN JOSE B 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1112XR304	SAN JOSE B 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1113CB	SAN JOSE B 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1114CB	SAN JOSE B 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1115CB	SAN JOSE B 1115	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1115XR448	SAN JOSE B 1115	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1116CB	SAN JOSE B 1116	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JOSE B 1117CB	SAN JOSE B 1117	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAN JUSTO 110136902	SAN JUSTO 1101	12.0925858		San Benito	Tier 2	FALSE	TRUE	TRUE
SAN JUSTO 11014002	SAN JUSTO 1101	17.96809117		San Benito	Tier 2	FALSE	TRUE	FALSE
SAN JUSTO 1101CB	SAN JUSTO 1101	8.35756293		San Benito	Tier 2	FALSE	TRUE	TRUE
SAN LEANDRO U 1101CB	SAN LEANDRO U 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1102CB	SAN LEANDRO U 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1102MR594	SAN LEANDRO U 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1103CB	SAN LEANDRO U 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1104CB	SAN LEANDRO U 1104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1105CB	SAN LEANDRO U 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1105MR803	SAN LEANDRO U 1105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1106CB	SAN LEANDRO U 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1106MR134	SAN LEANDRO U 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1106MR630	SAN LEANDRO U 1106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1107CB	SAN LEANDRO U 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1107MR217	SAN LEANDRO U 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1107MR560	SAN LEANDRO U 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1107MR596	SAN LEANDRO U 1107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 110810570	SAN LEANDRO U 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1108CB	SAN LEANDRO U 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1108MR566	SAN LEANDRO U 1108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1109936988	SAN LEANDRO U 1109	6.725802786		Alameda	Tier 2	FALSE	TRUE	TRUE
SAN LEANDRO U 1109CB	SAN LEANDRO U 1109	0		Alameda	Non-HFTD	TRUE	TRUE	FALSE
SAN LEANDRO U 1109CR002	SAN LEANDRO U 1109	0.105372076		Alameda	Tier 2	FALSE	TRUE	TRUE
SAN LEANDRO U 1109CR182	SAN LEANDRO U 1109	4.898067889		Alameda	Tier 3	FALSE	TRUE	TRUE
SAN LEANDRO U 1109CR284	SAN LEANDRO U 1109	0.731504595		Alameda	Tier 2	FALSE	TRUE	FALSE
SAN LEANDRO U 1109CR344	SAN LEANDRO U 1109	0.008916447		Alameda	Tier 2	FALSE	TRUE	TRUE
SAN LEANDRO U 1110616370	SAN LEANDRO U 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1110CB	SAN LEANDRO U 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1110MR360	SAN LEANDRO U 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1110MR361	SAN LEANDRO U 1110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1111CB	SAN LEANDRO U 1111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1112CB	SAN LEANDRO U 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1112MR775	SAN LEANDRO U 1112	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1113CB	SAN LEANDRO U 1113	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1113MR203	SAN LEANDRO U 1113	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1114213524	SAN LEANDRO U 1114	4.161179548		Alameda	Tier 2	FALSE	TRUE	FALSE
SAN LEANDRO U 1114415780	SAN LEANDRO U 1114	1.922168057		Alameda	Tier 2	FALSE	TRUE	FALSE
SAN LEANDRO U 1114458451	SAN LEANDRO U 1114	1.002871535		Alameda	Tier 2	FALSE	TRUE	FALSE
SAN LEANDRO U 1114501762	SAN LEANDRO U 1114	0.380267179		Alameda	Tier 2	FALSE	TRUE	TRUE
SAN LEANDRO U 1114523960	SAN LEANDRO U 1114	1.685874338		Alameda	Tier 2	FALSE	TRUE	FALSE
SAN LEANDRO U 1114653758	SAN LEANDRO U 1114	0.362938298		Alameda	Tier 2	FALSE	TRUE	FALSE
SAN LEANDRO U 1114CB	SAN LEANDRO U 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1114MR544	SAN LEANDRO U 1114	0.017449346		Alameda	Tier 2	FALSE	TRUE	TRUE
SAN LEANDRO U 1114MR545	SAN LEANDRO U 1114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1115CB	SAN LEANDRO U 1115	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1116CB	SAN LEANDRO U 1116	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1116MR212	SAN LEANDRO U 1116	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1116MR590	SAN LEANDRO U 1116	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1116MR592	SAN LEANDRO U 1116	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1151CB	SAN LEANDRO U 1151	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LEANDRO U 1151MR752	SAN LEANDRO U 1151	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LORENZO 0401CB	SAN LORENZO 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN LUIS OBISPO 1101483444	SAN LUIS OBISPO 1101	1.832784738		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1101592368	SAN LUIS OBISPO 1101	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN LUIS OBISPO 1101CB	SAN LUIS OBISPO 1101	3.289186667		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1101V12	SAN LUIS OBISPO 1101	20.45647988		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1102348318	SAN LUIS OBISPO 1102	0.383407551		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
SAN LUIS OBISPO 1102357407	SAN LUIS OBISPO 1102	0.190171609		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
SAN LUIS OBISPO 1102597518	SAN LUIS OBISPO 1102	0.009869436		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1102CB	SAN LUIS OBISPO 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN LUIS OBISPO 1102V96	SAN LUIS OBISPO 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN LUIS OBISPO 1102V98	SAN LUIS OBISPO 1102	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN LUIS OBISPO 1103153199	SAN LUIS OBISPO 1103	2.66628687		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
SAN LUIS OBISPO 1103191498	SAN LUIS OBISPO 1103	0.12257291		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1103365572	SAN LUIS OBISPO 1103	0.100213901		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
SAN LUIS OBISPO 110342344	SAN LUIS OBISPO 1103	8.756036993		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1103486690	SAN LUIS OBISPO 1103	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN LUIS OBISPO 1103CB	SAN LUIS OBISPO 1103	0.463302851		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1103V82	SAN LUIS OBISPO 1103	8.104838706		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1104350030	SAN LUIS OBISPO 1104	5.494724723		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1104721823	SAN LUIS OBISPO 1104	2.052958551		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1104777686	SAN LUIS OBISPO 1104	1.526074075		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
SAN LUIS OBISPO 1104798282	SAN LUIS OBISPO 1104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN LUIS OBISPO 1104982992	SAN LUIS OBISPO 1104	8.483084109		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1104CB	SAN LUIS OBISPO 1104	0.28800722		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1104V10	SAN LUIS OBISPO 1104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN LUIS OBISPO 1104V14	SAN LUIS OBISPO 1104	7.887346656		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1104V40	SAN LUIS OBISPO 1104	13.49032376		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1104V46	SAN LUIS OBISPO 1104	18.71552731		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1105796050	SAN LUIS OBISPO 1105	0.704428811		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 110596874	SAN LUIS OBISPO 1105	0.757374874		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
SAN LUIS OBISPO 1105994498	SAN LUIS OBISPO 1105	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN LUIS OBISPO 1105CB	SAN LUIS OBISPO 1105	0.007725062		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1107136678	SAN LUIS OBISPO 1107	13.77498722		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1107248566	SAN LUIS OBISPO 1107	1.517981212		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1107456456	SAN LUIS OBISPO 1107	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN LUIS OBISPO 1107834556	SAN LUIS OBISPO 1107	2.575107674		San Luis Obispo	Tier 3	FALSE	TRUE	FALSE
SAN LUIS OBISPO 110788962	SAN LUIS OBISPO 1107	2.14356549		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1107CB	SAN LUIS OBISPO 1107	0.773080091		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1107V02	SAN LUIS OBISPO 1107	17.88465842		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1107V18	SAN LUIS OBISPO 1107	2.391992222		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
SAN LUIS OBISPO 1107V58	SAN LUIS OBISPO 1107	1.076976179		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1107V60	SAN LUIS OBISPO 1107	1.666642596		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
SAN LUIS OBISPO 1107V62	SAN LUIS OBISPO 1107	2.605442301		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1108144690	SAN LUIS OBISPO 1108	0.231558276		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1108337126	SAN LUIS OBISPO 1108	0.424447695		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1108497078	SAN LUIS OBISPO 1108	0.04971099		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1108809986	SAN LUIS OBISPO 1108	0.919077254		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1108CB	SAN LUIS OBISPO 1108	0.002521706		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN LUIS OBISPO 1108V92	SAN LUIS OBISPO 1108	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 04048554	SAN MATEO 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 0404CB	SAN MATEO 0404	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 0407CB	SAN MATEO 0407	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 0408CB	SAN MATEO 0408	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 0409CB	SAN MATEO 0409	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 04109068	SAN MATEO 0410	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 0410CB	SAN MATEO 0410	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 210170256	SAN MATEO 2101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 2101CB	SAN MATEO 2101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 2102265872	SAN MATEO 2102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 2102437754	SAN MATEO 2102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 2102897982	SAN MATEO 2102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 21029022	SAN MATEO 2102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MATEO 2102CB	SAN MATEO 2102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SAN MIGUEL 1104895760	SAN MIGUEL 1104	8.383620611		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN MIGUEL 1104954082	SAN MIGUEL 1104	7.386953901		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
SAN MIGUEL 1104CB	SAN MIGUEL 1104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN MIGUEL 1104R54	SAN MIGUEL 1104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN MIGUEL 1104R58	SAN MIGUEL 1104	0.587514932		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN MIGUEL 1104R66	SAN MIGUEL 1104	7.381014109		Monterey	Tier 2	FALSE	TRUE	TRUE
SAN MIGUEL 1104R88	SAN MIGUEL 1104	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN MIGUEL 1105765824	SAN MIGUEL 1105	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN MIGUEL 1105CB	SAN MIGUEL 1105	1.388750042		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
SAN MIGUEL 1106428314	SAN MIGUEL 1106	14.54623602		Monterey	Tier 2	FALSE	TRUE	FALSE
SAN MIGUEL 1106605393	SAN MIGUEL 1106	20.64085695		Monterey	Tier 2	FALSE	TRUE	FALSE
SAN MIGUEL 1106CB	SAN MIGUEL 1106	0		Monterey	Non-HFTD	TRUE	TRUE	FALSE
SAN MIGUEL 1106N34	SAN MIGUEL 1106	2.634178766		Monterey	Tier 2	FALSE	TRUE	TRUE
SAN MIGUEL 1106N38	SAN MIGUEL 1106	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SAN MIGUEL 1107CB	SAN MIGUEL 1107	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SAN PABLO 1105BR142	SAN PABLO 1105	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
SAN PABLO 1105BR186	SAN PABLO 1105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
SAN PABLO 1105BR192	SAN PABLO 1105	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
SAN PABLO 1105CB	SAN PABLO 1105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
SAN PABLO 1105P188	SAN PABLO 1105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
SAN PABLO 1105P200	SAN PABLO 1105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
SAN PABLO 1106CB	SAN PABLO 1106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 11011210	SAN RAFAEL 1101	3.076209062		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 11011250	SAN RAFAEL 1101	3.56514737		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 1101310	SAN RAFAEL 1101	0.172675413		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1101312	SAN RAFAEL 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 110139156	SAN RAFAEL 1101	3.367450601		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 1101546438	SAN RAFAEL 1101	0.88486447		Marin	Tier 3	FALSE	TRUE	FALSE
SAN RAFAEL 110168970	SAN RAFAEL 1101	2.435774498		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 1101CB	SAN RAFAEL 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 11023997	SAN RAFAEL 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 1102480	SAN RAFAEL 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 11025615	SAN RAFAEL 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 1102848296	SAN RAFAEL 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 1102940	SAN RAFAEL 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 1102CB	SAN RAFAEL 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 1103258864	SAN RAFAEL 1103	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 1103302	SAN RAFAEL 1103	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 1103CB	SAN RAFAEL 1103	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 11042235	SAN RAFAEL 1104	0.156621201		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1104717160	SAN RAFAEL 1104	3.013833102		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 1104802	SAN RAFAEL 1104	8.422546408		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1104CB	SAN RAFAEL 1104	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 11051278	SAN RAFAEL 1105	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 11051806	SAN RAFAEL 1105	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 1105344	SAN RAFAEL 1105	0.011481586		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1105408	SAN RAFAEL 1105	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 1105534	SAN RAFAEL 1105	0.891721581		Marin	Tier 2	FALSE	TRUE	FALSE
SAN RAFAEL 1105645362	SAN RAFAEL 1105	0.582147195		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1105CB	SAN RAFAEL 1105	0.169998945		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 11061230	SAN RAFAEL 1106	0.718210455		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1106155772	SAN RAFAEL 1106	1.264490044		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 110648752	SAN RAFAEL 1106	0.036796193		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1106588020	SAN RAFAEL 1106	0.063145398		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 110668694	SAN RAFAEL 1106	0.014793362		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1106837	SAN RAFAEL 1106	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 1106910	SAN RAFAEL 1106	0.090704377		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1106991658	SAN RAFAEL 1106	0.615541768		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1106CB	SAN RAFAEL 1106	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 11071166	SAN RAFAEL 1107	12.3403387		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 11071276	SAN RAFAEL 1107	3.800275403		Marin	Tier 3	FALSE	TRUE	FALSE
SAN RAFAEL 11071415	SAN RAFAEL 1107	0.733654545		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 1107328	SAN RAFAEL 1107	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 1107434	SAN RAFAEL 1107	0.00284092		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1107CB	SAN RAFAEL 1107	4.389442106		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 11081262	SAN RAFAEL 1108	3.863872047		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 11081457	SAN RAFAEL 1108	0.782616109		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 1108516	SAN RAFAEL 1108	10.83268212		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 110863598	SAN RAFAEL 1108	2.054895014		Marin	Tier 3	FALSE	TRUE	FALSE
SAN RAFAEL 1108CB	SAN RAFAEL 1108	2.079350309		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 1109418	SAN RAFAEL 1109	6.540583822		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1109519234	SAN RAFAEL 1109	2.192979067		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1109535284	SAN RAFAEL 1109	2.94992E-05		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 1109692576	SAN RAFAEL 1109	2.218990777		Marin	Tier 2	FALSE	TRUE	FALSE
SAN RAFAEL 1109805696	SAN RAFAEL 1109	0.004074544		Marin	Tier 2	FALSE	TRUE	TRUE
SAN RAFAEL 110991742	SAN RAFAEL 1109	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 1109CB	SAN RAFAEL 1109	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAN RAFAEL 1110189400	SAN RAFAEL 1110	2.618395633		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 1110854822	SAN RAFAEL 1110	5.668784247		Marin	Tier 3	FALSE	TRUE	TRUE
SAN RAFAEL 1110CB	SAN RAFAEL 1110	0		Marin	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
SAN RAMON 2101CB	SAN RAMON 2101	0.607994045		Contra Costa	Tier 2	FALSE	TRUE	FALSE
SAN RAMON 2102CB	SAN RAMON 2102	1.523982242		Contra Costa	Tier 2	FALSE	TRUE	TRUE
SAN RAMON 2103CB	SAN RAMON 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2103MR279	SAN RAMON 2103	0.003391333		Alameda	Tier 3	FALSE	TRUE	TRUE
SAN RAMON 2104CB	SAN RAMON 2104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2104MR143	SAN RAMON 2104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2104MR373	SAN RAMON 2104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2104MR376	SAN RAMON 2104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2105CB	SAN RAMON 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2106CB	SAN RAMON 2106	0.445536387		Alameda	Tier 3	FALSE	TRUE	TRUE
SAN RAMON 2106MR285	SAN RAMON 2106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2107818336	SAN RAMON 2107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2107824562	SAN RAMON 2107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2107CB	SAN RAMON 2107	0.277085019		Alameda	Tier 3	FALSE	TRUE	TRUE
SAN RAMON 2107MR284	SAN RAMON 2107	14.21697311		Alameda	Tier 3	FALSE	TRUE	TRUE
SAN RAMON 2107MR441	SAN RAMON 2107	0.018481922		Alameda	Tier 3	FALSE	TRUE	TRUE
SAN RAMON 210853732	SAN RAMON 2108	7.574895513		Contra Costa	Tier 3	FALSE	TRUE	TRUE
SAN RAMON 2108CB	SAN RAMON 2108	8.809945349		Alameda	Tier 3	FALSE	TRUE	TRUE
SAN RAMON 2110CB	SAN RAMON 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2111CB	SAN RAMON 2111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2111MR293	SAN RAMON 2111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2111MR673	SAN RAMON 2111	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2114CB	SAN RAMON 2114	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2116CB	SAN RAMON 2116	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2117CB	SAN RAMON 2117	0.55787123		Alameda	Tier 2	FALSE	TRUE	TRUE
SAN RAMON 2118CB	SAN RAMON 2118	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 211995606	SAN RAMON 2119	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SAN RAMON 2119CB	SAN RAMON 2119	0.59007127		Contra Costa	Tier 2	FALSE	TRUE	TRUE
SAND CREEK 11037070	SAND CREEK 1103	17.09332272		Tulare	Tier 2	FALSE	TRUE	TRUE
SAND CREEK 11037110	SAND CREEK 1103	18.50052185		Tulare	Tier 2	TRUE	TRUE	TRUE
SAND CREEK 11037140	SAND CREEK 1103	30.87206213		Fresno	Tier 2	FALSE	TRUE	FALSE
SAND CREEK 1103799118	SAND CREEK 1103	23.22987186		Fresno	Tier 2	FALSE	TRUE	FALSE
SAND CREEK 1103818064	SAND CREEK 1103	37.43206315		Fresno	Tier 2	TRUE	TRUE	TRUE
SAND CREEK 110397354	SAND CREEK 1103	8.969149509		Tulare	Tier 2	FALSE	TRUE	FALSE
SAND CREEK 1103CB	SAND CREEK 1103	12.91852786		Tulare	Tier 2	FALSE	TRUE	TRUE
SANGER 110437372	SANGER 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 110485476	SANGER 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1104CB	SANGER 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1106CB	SANGER 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 110864662	SANGER 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 110892484	SANGER 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 110896048	SANGER 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1108CB	SANGER 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1108R544	SANGER 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1110365857	SANGER 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 111044510	SANGER 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1110814514	SANGER 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 111087626	SANGER 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1110CB	SANGER 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 111237242	SANGER 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1112CB	SANGER 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1114293528	SANGER 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1114CB	SANGER 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1114R2920	SANGER 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1114R2940	SANGER 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1114R3000	SANGER 1114	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
SANGER 1116CB	SANGER 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 111837420	SANGER 1118	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 111867888	SANGER 1118	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 111888052	SANGER 1118	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANGER 1118CB	SANGER 1118	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1105116500	SANTA MARIA 1105	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 110556022	SANTA MARIA 1105	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1105560634	SANTA MARIA 1105	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 110556064	SANTA MARIA 1105	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 110558550	SANTA MARIA 1105	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1105CB	SANTA MARIA 1105	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1105M134	SANTA MARIA 1105	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1105M42	SANTA MARIA 1105	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1106CB	SANTA MARIA 1106	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1106M112	SANTA MARIA 1106	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1106M114	SANTA MARIA 1106	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1107773358	SANTA MARIA 1107	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1107CB	SANTA MARIA 1107	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1108CB	SANTA MARIA 1108	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1108M120	SANTA MARIA 1108	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1108M122	SANTA MARIA 1108	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1108M16	SANTA MARIA 1108	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1108M18	SANTA MARIA 1108	14.88266869		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
SANTA MARIA 1108M80	SANTA MARIA 1108	57.3602041		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
SANTA MARIA 1109473720	SANTA MARIA 1109	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1109600274	SANTA MARIA 1109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1109CB	SANTA MARIA 1109	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1109M24	SANTA MARIA 1109	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1109M30	SANTA MARIA 1109	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1110353438	SANTA MARIA 1110	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 111089336	SANTA MARIA 1110	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1110CB	SANTA MARIA 1110	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1110M04	SANTA MARIA 1110	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1110M138	SANTA MARIA 1110	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1110M44	SANTA MARIA 1110	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1110M76	SANTA MARIA 1110	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1111811838	SANTA MARIA 1111	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1111823354	SANTA MARIA 1111	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1111CB	SANTA MARIA 1111	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1112707662	SANTA MARIA 1112	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1112CB	SANTA MARIA 1112	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1112M06	SANTA MARIA 1112	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1112M108	SANTA MARIA 1112	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1112M140	SANTA MARIA 1112	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA MARIA 1112M148	SANTA MARIA 1112	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
SANTA MARIA 1112M74	SANTA MARIA 1112	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA NELLA 110111370	SANTA NELLA 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA NELLA 11013680	SANTA NELLA 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA NELLA 1101594884	SANTA NELLA 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA NELLA 11017200	SANTA NELLA 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA NELLA 1101CB	SANTA NELLA 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA NELLA 1101CUS8000	SANTA NELLA 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA NELLA 11043130	SANTA NELLA 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA NELLA 110438984	SANTA NELLA 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA NELLA 1104611232	SANTA NELLA 1104	1.288693645		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA NELLA 11049600	SANTA NELLA 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA NELLA 11049660	SANTA NELLA 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA NELLA 1104CB	SANTA NELLA 1104	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA RITA 110211310	SANTA RITA 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA RITA 1102177196	SANTA RITA 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA RITA 11023080	SANTA RITA 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA RITA 11023560	SANTA RITA 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA RITA 110266758	SANTA RITA 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA RITA 11029920	SANTA RITA 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA RITA 11029930	SANTA RITA 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA RITA 1102CB	SANTA RITA 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA RITA 11053520	SANTA RITA 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA RITA 110569574	SANTA RITA 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA RITA 1105CB	SANTA RITA 1105	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1101138498	SANTA ROSA A 1101	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SANTA ROSA A 110179038	SANTA ROSA A 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1101CB	SANTA ROSA A 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1102336	SANTA ROSA A 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1102608	SANTA ROSA A 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1102622	SANTA ROSA A 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1102CB	SANTA ROSA A 1102	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SANTA ROSA A 1103258	SANTA ROSA A 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 110376232	SANTA ROSA A 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1103CB	SANTA ROSA A 1103	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SANTA ROSA A 1104173590	SANTA ROSA A 1104	4.242239288		Sonoma	Tier 3	TRUE	TRUE	FALSE
SANTA ROSA A 1104210	SANTA ROSA A 1104	7.243994239		Sonoma	Tier 3	TRUE	TRUE	TRUE
SANTA ROSA A 1104220	SANTA ROSA A 1104	9.626614739		Sonoma	Tier 3	TRUE	TRUE	TRUE
SANTA ROSA A 110432180	SANTA ROSA A 1104	2.417067899		Sonoma	Tier 3	TRUE	TRUE	TRUE
SANTA ROSA A 110439786	SANTA ROSA A 1104	0.198875741		Sonoma	Tier 3	FALSE	TRUE	TRUE
SANTA ROSA A 1104642	SANTA ROSA A 1104	9.300410498		Sonoma	Tier 3	TRUE	TRUE	TRUE
SANTA ROSA A 1104716	SANTA ROSA A 1104	8.905708394		Sonoma	Tier 3	TRUE	TRUE	TRUE
SANTA ROSA A 1104782496	SANTA ROSA A 1104	0.134285406		Sonoma	Tier 3	TRUE	TRUE	TRUE
SANTA ROSA A 1104991788	SANTA ROSA A 1104	0.659408071		Sonoma	Tier 3	TRUE	TRUE	TRUE
SANTA ROSA A 1104CB	SANTA ROSA A 1104	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SANTA ROSA A 1105390	SANTA ROSA A 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1105CB	SANTA ROSA A 1105	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SANTA ROSA A 1106300	SANTA ROSA A 1106	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SANTA ROSA A 1106CB	SANTA ROSA A 1106	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SANTA ROSA A 1107CB	SANTA ROSA A 1107	2.879180824		Sonoma	Tier 3	FALSE	TRUE	TRUE
SANTA ROSA A 1108626	SANTA ROSA A 1108	0.138181598		Sonoma	Tier 2	FALSE	TRUE	TRUE
SANTA ROSA A 1108CB	SANTA ROSA A 1108	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1109CB	SANTA ROSA A 1109	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SANTA ROSA A 1110184	SANTA ROSA A 1110	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 111038858	SANTA ROSA A 1110	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 111095984	SANTA ROSA A 1110	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 111098988	SANTA ROSA A 1110	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1110CB	SANTA ROSA A 1110	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1111147198	SANTA ROSA A 1111	1.110569742		Sonoma	Tier 2	FALSE	TRUE	TRUE
SANTA ROSA A 1111526	SANTA ROSA A 1111	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1111758024	SANTA ROSA A 1111	4.191886594		Sonoma	Tier 2	FALSE	TRUE	FALSE
SANTA ROSA A 111179354	SANTA ROSA A 1111	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1111907192	SANTA ROSA A 1111	0.124685162		Sonoma	Tier 2	FALSE	TRUE	TRUE
SANTA ROSA A 111199050	SANTA ROSA A 1111	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 1111CB	SANTA ROSA A 1111	0.247820842		Sonoma	Tier 2	FALSE	TRUE	TRUE
SANTA ROSA A 1112102	SANTA ROSA A 1112	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 111265702	SANTA ROSA A 1112	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA ROSA A 111298576	SANTA ROSA A 1112	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SANTA ROSA A 1112CB	SANTA ROSA A 1112	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SANTA TERESA 2101CB	SANTA TERESA 2101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SANTA YNEZ 1101277014	SANTA YNEZ 1101	4.480893503		Santa Barbara	Tier 3	FALSE	TRUE	TRUE
SANTA YNEZ 1101673618	SANTA YNEZ 1101	0.191900074		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
SANTA YNEZ 1101980192	SANTA YNEZ 1101	3.879686573		Santa Barbara	Tier 3	TRUE	TRUE	TRUE
SANTA YNEZ 1101CB	SANTA YNEZ 1101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA YNEZ 1101Y52	SANTA YNEZ 1101	20.08036508		Santa Barbara	Tier 3	TRUE	TRUE	TRUE
SANTA YNEZ 1102320270	SANTA YNEZ 1102	8.25274728		Santa Barbara	Tier 3	TRUE	TRUE	TRUE
SANTA YNEZ 1102CB	SANTA YNEZ 1102	0.90660251		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
SANTA YNEZ 1102Y18	SANTA YNEZ 1102	4.858117818		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
SANTA YNEZ 1104117616	SANTA YNEZ 1104	0.05901175		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
SANTA YNEZ 1104512912	SANTA YNEZ 1104	0.645476269		Santa Barbara	Tier 2	FALSE	TRUE	FALSE
SANTA YNEZ 1104564710	SANTA YNEZ 1104	0.129424036		Santa Barbara	Tier 2	FALSE	TRUE	FALSE
SANTA YNEZ 1104685160	SANTA YNEZ 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA YNEZ 110477098	SANTA YNEZ 1104	11.32873646		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
SANTA YNEZ 110488746	SANTA YNEZ 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA YNEZ 1104CB	SANTA YNEZ 1104	0.016461641		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
SANTA YNEZ 1104Y04	SANTA YNEZ 1104	14.44252354		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
SANTA YNEZ 1104Y28	SANTA YNEZ 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA YNEZ 1104Y30	SANTA YNEZ 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SANTA YNEZ 1104Y66	SANTA YNEZ 1104	15.7555374		Santa Barbara	Tier 3	FALSE	TRUE	TRUE
SARANAP 0401CB	SARANAP 0401	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1103CB	SARATOGA 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1103LC16	SARATOGA 1103	4.298503489		Santa Clara	Tier 2	FALSE	TRUE	TRUE
SARATOGA 1103LC40	SARATOGA 1103	0.294306194		Santa Clara	Tier 2	FALSE	TRUE	TRUE
SARATOGA 1103LC82	SARATOGA 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 110413314	SARATOGA 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1104209146	SARATOGA 1104	2.921397105		Santa Clara	Tier 2	FALSE	TRUE	FALSE
SARATOGA 110460104	SARATOGA 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1104CB	SARATOGA 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1105431214	SARATOGA 1105	0.320091102		Santa Clara	Tier 2	FALSE	TRUE	FALSE
SARATOGA 1105CB	SARATOGA 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1105LC14	SARATOGA 1105	9.782149216		Santa Clara	Tier 2	FALSE	TRUE	TRUE
SARATOGA 1106340986	SARATOGA 1106	7.44763833		Santa Clara	Tier 3	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
SARATOGA 1106408318	SARATOGA 1106	7.98596209		Santa Clara	Tier 3	FALSE	TRUE	TRUE
SARATOGA 1106CB	SARATOGA 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1107167792	SARATOGA 1107	4.785027857		Santa Clara	Tier 3	FALSE	TRUE	TRUE
SARATOGA 1107413816	SARATOGA 1107	1.715593223		Santa Clara	Tier 3	FALSE	TRUE	TRUE
SARATOGA 11075696	SARATOGA 1107	5.01445193		Santa Clara	Tier 3	FALSE	TRUE	TRUE
SARATOGA 1107667000	SARATOGA 1107	7.312668295		Santa Clara	Tier 3	FALSE	TRUE	TRUE
SARATOGA 11076867	SARATOGA 1107	0.628736156		Santa Clara	Tier 2	FALSE	TRUE	TRUE
SARATOGA 1107899344	SARATOGA 1107	9.307811427		Santa Clara	Tier 3	FALSE	TRUE	TRUE
SARATOGA 1107CB	SARATOGA 1107	0.171075953		Santa Clara	Tier 2	FALSE	TRUE	TRUE
SARATOGA 1107LC26	SARATOGA 1107	5.640073015		Santa Clara	Tier 3	FALSE	TRUE	TRUE
SARATOGA 110860088	SARATOGA 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1108CB	SARATOGA 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1108LC106	SARATOGA 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 11091024	SARATOGA 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1109CB	SARATOGA 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1109LC42	SARATOGA 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1109LC44	SARATOGA 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 111046892	SARATOGA 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1110739960	SARATOGA 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1110840021	SARATOGA 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1110CB	SARATOGA 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1110XR228	SARATOGA 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1110XR574	SARATOGA 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1111CB	SARATOGA 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1111XR128	SARATOGA 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1111XR134	SARATOGA 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1111XR416	SARATOGA 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1111XR536	SARATOGA 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1111XR538	SARATOGA 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1112CB	SARATOGA 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 111319114	SARATOGA 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1113CB	SARATOGA 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 11141160	SARATOGA 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1114CB	SARATOGA 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1114XR418	SARATOGA 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1114XR420	SARATOGA 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1114XR540	SARATOGA 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1115463510	SARATOGA 1115	2.974416399		Santa Clara	Tier 2	FALSE	TRUE	FALSE
SARATOGA 1115CB	SARATOGA 1115	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1115LC18	SARATOGA 1115	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SARATOGA 1115LC20	SARATOGA 1115	0.107734516		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SAUSALITO 0401CB	SAUSALITO 0401	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAUSALITO 0402CB	SAUSALITO 0402	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAUSALITO 11011270	SAUSALITO 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAUSALITO 1101221834	SAUSALITO 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAUSALITO 1101331806	SAUSALITO 1101	0.440779931		Marin	Tier 2	FALSE	TRUE	FALSE
SAUSALITO 1101688590	SAUSALITO 1101	0.808590577		Marin	Tier 2	FALSE	TRUE	TRUE
SAUSALITO 1101CB	SAUSALITO 1101	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAUSALITO 11021224	SAUSALITO 1102	0.005305905		Marin	Tier 2	FALSE	TRUE	TRUE
SAUSALITO 11021268	SAUSALITO 1102	4.933067493		Marin	Tier 2	FALSE	TRUE	TRUE
SAUSALITO 11021500	SAUSALITO 1102	0.952768627		Marin	Tier 2	FALSE	TRUE	FALSE
SAUSALITO 11022033	SAUSALITO 1102	0.007770607		Marin	Tier 2	FALSE	TRUE	TRUE
SAUSALITO 1102410	SAUSALITO 1102	1.329794158		Marin	Tier 2	FALSE	TRUE	TRUE
SAUSALITO 1102678	SAUSALITO 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SAUSALITO 1102758798	SAUSALITO 1102	0.014066761		Marin	Tier 2	FALSE	TRUE	TRUE
SAUSALITO 110284278	SAUSALITO 1102	1.484276801		Marin	Tier 2	FALSE	TRUE	TRUE
SAUSALITO 1102964592	SAUSALITO 1102	0.381336145		Marin	Tier 2	FALSE	TRUE	TRUE
SAUSALITO 1102CB	SAUSALITO 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
SCE MCFARLAND 1101CB	SCE MCFARLAND 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SCE REFUGIO 1701CB	SCE REFUGIO 1701	0.0805296		Santa Barbara	Tier 3	FALSE	TRUE	TRUE
SCE TEHACHAPI 1101CB	SCE TEHACHAPI 1101	1.438596723		Kern	Tier 2	FALSE	TRUE	TRUE
SCE TEJON TIE 1101CB	SCE TEJON TIE 1101	0.063592734		Kern	Tier 2	FALSE	TRUE	TRUE
SCE VEGAS 1701CB	SCE VEGAS 1701	0.16947425		Santa Barbara	Tier 3	FALSE	TRUE	TRUE
SCHINDLER 110590342	SCHINDLER 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 110597252	SCHINDLER 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 110599334	SCHINDLER 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1105CB	SCHINDLER 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1107CB	SCHINDLER 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1108CB	SCHINDLER 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1109CB	SCHINDLER 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1110176099	SCHINDLER 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1110190384	SCHINDLER 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 111037306	SCHINDLER 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 111059862	SCHINDLER 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 111081340	SCHINDLER 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1110CB	SCHINDLER 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1111541614	SCHINDLER 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 11119420	SCHINDLER 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1111CB	SCHINDLER 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1112494245	SCHINDLER 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 111256574	SCHINDLER 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1112609842	SCHINDLER 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1112935980	SCHINDLER 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1112CB	SCHINDLER 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 111447668	SCHINDLER 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 111449248	SCHINDLER 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 111488632	SCHINDLER 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 11149120	SCHINDLER 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 111494236	SCHINDLER 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 11149630	SCHINDLER 1114	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1114CB	SCHINDLER 1114	0		Fresno	Non-HFTD	TRUE	TRUE	FALSE
SCHINDLER 111638456	SCHINDLER 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SCHINDLER 1116CB	SCHINDLER 1116	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SEACLIFF 040112946	SEACLIFF 0401	2.135098076		Santa Cruz	Tier 3	FALSE	TRUE	FALSE
SEACLIFF 0401929132	SEACLIFF 0401	5.250639081		Santa Cruz	Tier 3	FALSE	TRUE	FALSE
SEACLIFF 0401CB	SEACLIFF 0401	0.371912428		Santa Cruz	Tier 2	FALSE	TRUE	TRUE
SEACLIFF 0402558727	SEACLIFF 0402	0.078744401		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
SEACLIFF 0402CB	SEACLIFF 0402	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
SEMITROPIC 11044549	SEMITROPIC 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SEMITROPIC 1104CB	SEMITROPIC 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SEMITROPIC 11064553	SEMITROPIC 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
SEMITROPIC 1106CB	SEMITROPIC 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SEMITROPIC 1108CB	SEMITROPIC 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SEMITROPIC 111037810	SEMITROPIC 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SEMITROPIC 111037812	SEMITROPIC 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SEMITROPIC 11104552	SEMITROPIC 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SEMITROPIC 1110804864	SEMITROPIC 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SEMITROPIC 111081868	SEMITROPIC 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SEMITROPIC 1110CB	SEMITROPIC 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SEMITROPIC 11122673	SEMITROPIC 1112	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SEMITROPIC 1112CB	SEMITROPIC 1112	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SERRAMONTE 110312787	SERRAMONTE 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SERRAMONTE 110346872	SERRAMONTE 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SERRAMONTE 110359766	SERRAMONTE 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SERRAMONTE 1103CB	SERRAMONTE 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SERRAMONTE 110412705	SERRAMONTE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SERRAMONTE 110456936	SERRAMONTE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SERRAMONTE 11046055	SERRAMONTE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SERRAMONTE 110467957	SERRAMONTE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SERRAMONTE 110496308	SERRAMONTE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SERRAMONTE 1104CB	SERRAMONTE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SF E 0401CB	SF E 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 0405CB	SF E 0405	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 0406CB	SF E 0406	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 0407CB	SF E 0407	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 0408CB	SF E 0408	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 0409CB	SF E 0409	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
SF E 0410CB	SF E 0410	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 110162024	SF E 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 1101CB	SF E 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 110310485	SF E 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 1103555674	SF E 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 1103CB	SF E 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 110510491	SF E 1105	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 1105CB	SF E 1105	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 11076273	SF E 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 11076461	SF E 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 110765846	SF E 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF E 1107CB	SF E 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 0401CB	SF G 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 0402CB	SF G 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 0403CB	SF G 0403	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 0404CB	SF G 0404	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 0405CB	SF G 0405	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 0406CB	SF G 0406	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 0407CB	SF G 0407	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 0408CB	SF G 0408	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 0409CB	SF G 0409	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 0410CB	SF G 0410	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 0412CB	SF G 0412	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 0413CB	SF G 0413	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 0414CB	SF G 0414	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 1101CB	SF G 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 1102207276	SF G 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF G 1102CB	SF G 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 0401CB	SF H 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 0402CB	SF H 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 0403CB	SF H 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SF H 0404CB	SF H 0404	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 0405CB	SF H 0405	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110114687	SF H 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 11016225	SF H 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SF H 1101CB	SF H 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SF H 110213521	SF H 1102	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
SF H 110213885	SF H 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110268336	SF H 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 1102CB	SF H 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110313203	SF H 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 1103562348	SF H 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110365488	SF H 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110388014	SF H 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 1103897904	SF H 1103	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SF H 1103CB	SF H 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 1104CB	SF H 1104	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110510345	SF H 1105	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110514741	SF H 1105	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110553680	SF H 1105	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110588460	SF H 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SF H 1105CB	SF H 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SF H 110612123	SF H 1106	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
SF H 110614703	SF H 1106	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 11066955	SF H 1106	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 1106CB	SF H 1106	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110713525	SF H 1107	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
SF H 1107343268	SF H 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 1107CB	SF H 1107	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110810335	SF H 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110839004	SF H 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110857238	SF H 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 11086563	SF H 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110868272	SF H 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110877020	SF H 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110886122	SF H 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 1108CB	SF H 1108	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
SF H 110944832	SF H 1109	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 110947238	SF H 1109	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 1109CB	SF H 1109	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 1110326008	SF H 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SF H 111041644	SF H 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SF H 111071826	SF H 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SF H 111084104	SF H 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SF H 1110CB	SF H 1110	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE

Workpaper 032
Pacific Gas and Electric Company
Electrical Undergrounding Program
Circuit Segment List
(Continued)

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
SF H 1111144648	SF H 1111	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF H 1111CB	SF H 1111	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF J 0402CB	SF J 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF J 0404CB	SF J 0404	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF J 0406CB	SF J 0406	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF J 0407CB	SF J 0407	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF J 0409CB	SF J 0409	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF J 1108CB	SF J 1108	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF K 0401CB	SF K 0401	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
SF K 0402CB	SF K 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF K 0403CB	SF K 0403	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF K 0404CB	SF K 0404	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF K 0405CB	SF K 0405	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF K 0406CB	SF K 0406	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF K 0407CB	SF K 0407	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF K 0408CB	SF K 0408	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF K 0409CB	SF K 0409	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF K 0410CB	SF K 0410	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF K 0411CB	SF K 0411	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF K 11016365	SF K 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF K 1101CB	SF K 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 0401CB	SF L 0401	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
SF L 0402CB	SF L 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 0403CB	SF L 0403	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 0404CB	SF L 0404	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
SF L 0405CB	SF L 0405	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 0406CB	SF L 0406	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 0407CB	SF L 0407	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 0408CB	SF L 0408	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 0409CB	SF L 0409	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 110147096	SF L 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 110182980	SF L 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 1101CB	SF L 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 110213881	SF L 1102	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
SF L 110246994	SF L 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 110286908	SF L 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 110299986	SF L 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 1102CB	SF L 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF L 110369372	SF L 1103	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
SF L 1103CB	SF L 1103	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF M 0401CB	SF M 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF M 0402CB	SF M 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF M 0403CB	SF M 0403	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF M 0404CB	SF M 0404	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF M 0405CB	SF M 0405	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF M 0406CB	SF M 0406	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF N 0401CB	SF N 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF N 0402CB	SF N 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF N 040377850	SF N 0403	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF N 0403CB	SF N 0403	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF N 0405CB	SF N 0405	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF N 040671068	SF N 0406	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF N 0406CB	SF N 0406	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF N 0408CB	SF N 0408	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF N 1101CB	SF N 1101	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF N 11023431	SF N 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF N 1102405616	SF N 1102	0		San Francisco	Non-HFTD	TRUE	TRUE	FALSE
SF N 11026213	SF N 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SF N 1102CB	SF N 1102	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SHADY GLEN 1101100230	SHADY GLEN 1101	0.098743745		Placer	Tier 2	FALSE	TRUE	TRUE
SHADY GLEN 1101145584	SHADY GLEN 1101	0.64086779		Placer	Tier 2	FALSE	TRUE	TRUE
SHADY GLEN 11012768	SHADY GLEN 1101	6.632653885		Placer	Tier 2	TRUE	TRUE	TRUE
SHADY GLEN 110132726	SHADY GLEN 1101	7.514864961		Placer	Tier 2	TRUE	TRUE	TRUE
SHADY GLEN 110151696	SHADY GLEN 1101	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
SHADY GLEN 1101578248	SHADY GLEN 1101	0.196594011		Placer	Tier 2	FALSE	TRUE	TRUE
SHADY GLEN 1101585766	SHADY GLEN 1101	0.788797412		Placer	Tier 2	FALSE	TRUE	TRUE
SHADY GLEN 1101898212	SHADY GLEN 1101	0.262413775		Placer	Tier 2	FALSE	TRUE	TRUE
SHADY GLEN 1101941844	SHADY GLEN 1101	16.27853982		Placer	Tier 2	FALSE	TRUE	TRUE
SHADY GLEN 1101CB	SHADY GLEN 1101	2.323784673		Placer	Tier 2	FALSE	TRUE	TRUE
SHADY GLEN 11022232	SHADY GLEN 1102	19.51672405		Placer	Tier 3	FALSE	TRUE	TRUE
SHADY GLEN 110248894	SHADY GLEN 1102	9.933720443		Placer	Tier 3	TRUE	TRUE	TRUE
SHADY GLEN 1102743098	SHADY GLEN 1102	2.099625658		Placer	Tier 2	FALSE	TRUE	TRUE
SHADY GLEN 1102CB	SHADY GLEN 1102	18.44807148		Placer	Tier 3	FALSE	TRUE	TRUE
SHAFTER 1101CB	SHAFTER 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 11023621	SHAFTER 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 110266660	SHAFTER 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 1102CB	SHAFTER 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 11031195	SHAFTER 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 11031197	SHAFTER 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 1103CB	SHAFTER 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 11041419	SHAFTER 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 1104CB	SHAFTER 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 111153620	SHAFTER 1111	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 111187796	SHAFTER 1111	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 1111CB	SHAFTER 1111	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 11121453	SHAFTER 1112	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 1112795622	SHAFTER 1112	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHAFTER 1112CB	SHAFTER 1112	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SHARON 1101400060	SHARON 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
SHARON 1101CB	SHARON 1101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
SHEPHERD 2109CB	SHEPHERD 2109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SHEPHERD 211038450	SHEPHERD 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SHEPHERD 211089234	SHEPHERD 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SHEPHERD 2110CB	SHEPHERD 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SHEPHERD 2110R1660	SHEPHERD 2110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SHEPHERD 2111327814	SHEPHERD 2111	11.18997739		Fresno	Tier 2	TRUE	TRUE	FALSE
SHEPHERD 2111443696	SHEPHERD 2111	10.30299549		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SHEPHERD 2111537008	SHEPHERD 2111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SHEPHERD 2111688294	SHEPHERD 2111	0.015136894		Fresno	Tier 2	FALSE	TRUE	TRUE
SHEPHERD 2111707358	SHEPHERD 2111	23.24709862		Fresno	Tier 2	FALSE	TRUE	FALSE
SHEPHERD 2111CB	SHEPHERD 2111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
SHEPHERD 211275088	SHEPHERD 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SHEPHERD 2112CB	SHEPHERD 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SHEPHERD 2112R1743	SHEPHERD 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SHEPHERD 2112R4588	SHEPHERD 2112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
SHINGLE SPRINGS 11038752	SHINGLE SPRINGS 1103	1.839378131		El Dorado	Tier 2	FALSE	TRUE	FALSE
SHINGLE SPRINGS 1103CB	SHINGLE SPRINGS 1103	5.85962021		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 110419502	SHINGLE SPRINGS 1104	5.713163652		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 1104556218	SHINGLE SPRINGS 1104	37.75322935		El Dorado	Tier 3	FALSE	TRUE	FALSE
SHINGLE SPRINGS 1104CB	SHINGLE SPRINGS 1104	0.556833402		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210511172	SHINGLE SPRINGS 2105	1.983856815		El Dorado	Tier 2	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210519522	SHINGLE SPRINGS 2105	9.509939954		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210551738	SHINGLE SPRINGS 2105	0.016578572		El Dorado	Tier 2	FALSE	TRUE	TRUE
SHINGLE SPRINGS 2105CB	SHINGLE SPRINGS 2105	18.91557387		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210819622	SHINGLE SPRINGS 2108	5.133643343		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210819762	SHINGLE SPRINGS 2108	4.167396744		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 2108449638	SHINGLE SPRINGS 2108	0.024308026		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210851474	SHINGLE SPRINGS 2108	0.243075211		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210851476	SHINGLE SPRINGS 2108	4.039588546		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 2108CB	SHINGLE SPRINGS 2108	1.421516049		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210911092	SHINGLE SPRINGS 2109	21.94605694		El Dorado	Tier 2	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210912392	SHINGLE SPRINGS 2109	14.96299738		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210913322	SHINGLE SPRINGS 2109	40.96402763		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 21092679	SHINGLE SPRINGS 2109	6.949504706		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210935598	SHINGLE SPRINGS 2109	11.09780751		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210961892	SHINGLE SPRINGS 2109	30.0492744		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210981390	SHINGLE SPRINGS 2109	18.43436881		El Dorado	Tier 2	FALSE	TRUE	TRUE
SHINGLE SPRINGS 210985766	SHINGLE SPRINGS 2109	18.45648916		El Dorado	Tier 2	FALSE	TRUE	TRUE
SHINGLE SPRINGS 21099372	SHINGLE SPRINGS 2109	19.34481877		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 2109CB	SHINGLE SPRINGS 2109	27.03655268		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 2110386572	SHINGLE SPRINGS 2110	22.24194733		El Dorado	Tier 3	FALSE	TRUE	FALSE
SHINGLE SPRINGS 211051790	SHINGLE SPRINGS 2110	7.746997755		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 211051800	SHINGLE SPRINGS 2110	9.04997103		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 21107742	SHINGLE SPRINGS 2110	23.11186187		El Dorado	Tier 3	FALSE	TRUE	TRUE
SHINGLE SPRINGS 2110CB	SHINGLE SPRINGS 2110	0.679027116		El Dorado	Tier 3	FALSE	TRUE	TRUE
SILVER 0401CB	SILVER 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
SILVERADO 21022495	SILVERADO 2102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
SILVERADO 2102285782	SILVERADO 2102	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
SILVERADO 21023010	SILVERADO 2102	0.140213247		Napa	Tier 2	FALSE	TRUE	TRUE
SILVERADO 210234959	SILVERADO 2102	24.7483767		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2102437194	SILVERADO 2102	1.058181928		Napa	Tier 2	FALSE	TRUE	TRUE
SILVERADO 210258626	SILVERADO 2102	8.492210602		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2102636	SILVERADO 2102	5.36868765		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2102714	SILVERADO 2102	1.14738273		Napa	Tier 2	TRUE	TRUE	TRUE
SILVERADO 2102772792	SILVERADO 2102	2.104782114		Napa	Tier 2	FALSE	TRUE	TRUE
SILVERADO 2102808	SILVERADO 2102	2.676584597		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2102914108	SILVERADO 2102	1.846742345		Napa	Tier 2	FALSE	TRUE	TRUE
SILVERADO 2102922022	SILVERADO 2102	6.536540699		Napa	Tier 3	FALSE	TRUE	TRUE
SILVERADO 2102942170	SILVERADO 2102	2.826695455		Napa	Tier 2	FALSE	TRUE	TRUE
SILVERADO 210298998	SILVERADO 2102	0.069111381		Napa	Tier 2	FALSE	TRUE	TRUE
SILVERADO 2102CB	SILVERADO 2102	0.48363138		Napa	Tier 2	TRUE	TRUE	TRUE
SILVERADO 2103315138	SILVERADO 2103	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
SILVERADO 2103403102	SILVERADO 2103	0.487665253		Napa	Tier 3	FALSE	TRUE	TRUE
SILVERADO 2103507513	SILVERADO 2103	2.724524753		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2103617828	SILVERADO 2103	1.044655652		Napa	Tier 3	FALSE	TRUE	TRUE
SILVERADO 2103920793	SILVERADO 2103	6.406094691		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2103CB	SILVERADO 2103	0.416611653		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2104209359	SILVERADO 2104	0.013608714		Napa	Tier 3	FALSE	TRUE	TRUE
SILVERADO 2104324994	SILVERADO 2104	0.653497741		Napa	Tier 3	FALSE	TRUE	TRUE
SILVERADO 210437632	SILVERADO 2104	7.392496395		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2104515946	SILVERADO 2104	4.473019469		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2104632	SILVERADO 2104	17.9537108		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2104633600	SILVERADO 2104	24.51052631		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2104646776	SILVERADO 2104	3.516092049		Napa	Tier 3	FALSE	TRUE	TRUE
SILVERADO 2104708	SILVERADO 2104	3.579847601		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2104722	SILVERADO 2104	7.787762839		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 210478268	SILVERADO 2104	11.35890901		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2104806	SILVERADO 2104	18.42902378		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2104806500	SILVERADO 2104	11.78071794		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2104940	SILVERADO 2104	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
SILVERADO 2104CB	SILVERADO 2104	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
SILVERADO 21051306	SILVERADO 2105	0.61835629		Napa	Tier 3	FALSE	TRUE	TRUE
SILVERADO 21051308	SILVERADO 2105	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
SILVERADO 2105131568	SILVERADO 2105	3.752114184		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2105167360	SILVERADO 2105	9.478221009		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2105247660	SILVERADO 2105	2.050789871		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2105268508	SILVERADO 2105	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
SILVERADO 2105309298	SILVERADO 2105	0.865396081		Napa	Tier 3	FALSE	TRUE	FALSE
SILVERADO 2105337226	SILVERADO 2105	0.307763188		Napa	Tier 3	FALSE	TRUE	TRUE
SILVERADO 2105359428	SILVERADO 2105	0.297469709		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2105394844	SILVERADO 2105	1.366342761		Napa	Tier 3	FALSE	TRUE	TRUE
SILVERADO 2105533226	SILVERADO 2105	0		Napa	Non-HFTD	TRUE	TRUE	FALSE
SILVERADO 2105658898	SILVERADO 2105	16.88918561		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2105764650	SILVERADO 2105	0.191385685		Napa	Non-HFTD	FALSE	FALSE	FALSE
SILVERADO 2105768606	SILVERADO 2105	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
SILVERADO 210578326	SILVERADO 2105	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
SILVERADO 210581662	SILVERADO 2105	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
SILVERADO 2105861266	SILVERADO 2105	1.537634852		Napa	Tier 3	TRUE	TRUE	TRUE
SILVERADO 2105900104	SILVERADO 2105	0.100764326		Napa	Tier 3	FALSE	TRUE	TRUE
SILVERADO 2105990552	SILVERADO 2105	0.612393784		Napa	Tier 3	FALSE	TRUE	TRUE
SILVERADO 2105CB	SILVERADO 2105	0.00190073		Napa	Tier 3	FALSE	TRUE	TRUE
SISQUOC 1101CB	SISQUOC 1101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SISQUOC 1101M96	SISQUOC 1101	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SISQUOC 1102113874	SISQUOC 1102	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SISQUOC 110245261	SISQUOC 1102	7.720805954		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
SISQUOC 1102CB	SISQUOC 1102	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SISQUOC 1102M26	SISQUOC 1102	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SISQUOC 1102M52	SISQUOC 1102	33.00162877		Santa Barbara	Tier 3	FALSE	TRUE	TRUE
SISQUOC 1102M54	SISQUOC 1102	17.69652185		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
SISQUOC 1103858898	SISQUOC 1103	19.27803486		Santa Barbara	Tier 3	FALSE	TRUE	TRUE
SISQUOC 1103867486	SISQUOC 1103	0.583685787		Santa Barbara	Tier 2	FALSE	TRUE	FALSE
SISQUOC 1103CB	SISQUOC 1103	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
SISQUOC 1103M14	SISQUOC 1103	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SISQUOC 1103M98	SISQUOC 1103	5.565575165		Santa Barbara	Tier 3	FALSE	TRUE	TRUE
SISQUOC 1104301229	SISQUOC 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SISQUOC 1104675420	SISQUOC 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SISQUOC 1104CB	SISQUOC 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SISQUOC 1104M58	SISQUOC 1104	0		Santa Barbara	Non-HFTD	FALSE	FALSE	FALSE
SKAGGS ISLAND 1101CB	SKAGGS ISLAND 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SMARTVILLE 1101CB	SMARTVILLE 1101	15.88599544		Yuba	Tier 2	FALSE	TRUE	FALSE
SMUD 15805CB	SMUD 15805	0.007040914		El Dorado	Tier 2	FALSE	TRUE	TRUE
SMYRNA 1101317866	SMYRNA 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 11013685	SMYRNA 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 1101CB	SMYRNA 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 11021183	SMYRNA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 1102122328	SMYRNA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 1102793576	SMYRNA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 1102CB	SMYRNA 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 1104704492	SMYRNA 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 1104739484	SMYRNA 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 110484708	SMYRNA 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 110496526	SMYRNA 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 110496808	SMYRNA 1104	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 1104CB	SMYRNA 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 1105238156	SMYRNA 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 110538778	SMYRNA 1105	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 1105488088	SMYRNA 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 110578536	SMYRNA 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 110598496	SMYRNA 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 1105CB	SMYRNA 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 11061200	SMYRNA 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 11064550	SMYRNA 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SMYRNA 1106CB	SMYRNA 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
SNEATH LANE 110134438	SNEATH LANE 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SNEATH LANE 11015311	SNEATH LANE 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SNEATH LANE 11016525	SNEATH LANE 1101	1.802800274		San Mateo	Tier 2	FALSE	TRUE	TRUE
SNEATH LANE 110168070	SNEATH LANE 1101	0.183244137		San Mateo	Tier 2	FALSE	TRUE	TRUE
SNEATH LANE 1101CB	SNEATH LANE 1101	0.285048612		San Mateo	Tier 2	FALSE	TRUE	TRUE
SNEATH LANE 110210255	SNEATH LANE 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SNEATH LANE 110210287	SNEATH LANE 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SNEATH LANE 110275844	SNEATH LANE 1102	0.089425548		San Mateo	Tier 2	FALSE	TRUE	TRUE
SNEATH LANE 1102CB	SNEATH LANE 1102	1.149611209		San Mateo	Tier 2	FALSE	TRUE	TRUE
SNEATH LANE 110611792	SNEATH LANE 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SNEATH LANE 11061339	SNEATH LANE 1106	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SNEATH LANE 1106CB	SNEATH LANE 1106	2.624350079		San Mateo	Tier 2	FALSE	TRUE	TRUE
SNEATH LANE 11071277	SNEATH LANE 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SNEATH LANE 110715341	SNEATH LANE 1107	0.211481898		San Mateo	Tier 2	FALSE	TRUE	TRUE
SNEATH LANE 110748338	SNEATH LANE 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SNEATH LANE 110796530	SNEATH LANE 1107	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SNEATH LANE 1107CB	SNEATH LANE 1107	0.700689782		San Mateo	Tier 2	FALSE	TRUE	TRUE
SO. CAL. EDISON #3 1101CB	SO. CAL. EDISON #3 1101	9.329756101		Madera	Tier 3	FALSE	TRUE	TRUE
SO. CAL. EDISON 1001CB	SO. CAL. EDISON 1001	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
SOBRANTE 110142914	SOBRANTE 1101	0.275265335		Contra Costa	Tier 2	FALSE	TRUE	TRUE
SOBRANTE 1101934036	SOBRANTE 1101	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
SOBRANTE 1101CB	SOBRANTE 1101	13.93724644		Contra Costa	Tier 2	FALSE	TRUE	TRUE
SOBRANTE 1101L534R	SOBRANTE 1101	0.785846107		Contra Costa	Tier 2	FALSE	TRUE	TRUE
SOBRANTE 1102690098	SOBRANTE 1102	7.338967839		Contra Costa	Tier 3	FALSE	TRUE	TRUE
SOBRANTE 1102CB	SOBRANTE 1102	10.39119361		Contra Costa	Tier 3	FALSE	TRUE	TRUE
SOBRANTE 1102L510R	SOBRANTE 1102	9.537222595		Contra Costa	Tier 2	FALSE	TRUE	TRUE
SOBRANTE 1103215046	SOBRANTE 1103	0.192232969		Contra Costa	Tier 2	FALSE	TRUE	TRUE
SOBRANTE 11033342	SOBRANTE 1103	2.307688057		Contra Costa	Tier 2	FALSE	TRUE	FALSE
SOBRANTE 1103CB	SOBRANTE 1103	4.160488473		Contra Costa	Tier 3	FALSE	TRUE	TRUE
SOBRANTE 1103LA401R	SOBRANTE 1103	2.849493865		Contra Costa	Tier 2	FALSE	TRUE	TRUE
SOLANO 0402CB	SOLANO 0402	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 2101107872	SOLEDAD 2101	11.14888107		Monterey	Tier 2	FALSE	TRUE	FALSE
SOLEDAD 21017048	SOLEDAD 2101	2.034107432		Monterey	Tier 2	FALSE	TRUE	TRUE
SOLEDAD 2101775342	SOLEDAD 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 2101823854	SOLEDAD 2101	1.647571827		Monterey	Tier 2	FALSE	TRUE	TRUE
SOLEDAD 2101955138	SOLEDAD 2101	2.499182407		Monterey	Tier 2	FALSE	TRUE	FALSE
SOLEDAD 2102304826	SOLEDAD 2102	3.888137206		Monterey	Tier 2	FALSE	TRUE	TRUE
SOLEDAD 210237204	SOLEDAD 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 210242506	SOLEDAD 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 210246928	SOLEDAD 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 21027008	SOLEDAD 2102	2.991414165		Monterey	Tier 2	FALSE	TRUE	TRUE
SOLEDAD 21027644	SOLEDAD 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 21027646	SOLEDAD 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 2102858388	SOLEDAD 2102	4.721075737		Monterey	Tier 2	FALSE	TRUE	TRUE
SOLEDAD 2102CB	SOLEDAD 2102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 210435306	SOLEDAD 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 2104375878	SOLEDAD 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 2104413916	SOLEDAD 2104	1.215412109		Monterey	Tier 2	FALSE	TRUE	FALSE
SOLEDAD 21047248	SOLEDAD 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 210475336	SOLEDAD 2104	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 2105125484	SOLEDAD 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 21053076	SOLEDAD 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 2105315500	SOLEDAD 2105	0.961904797		Monterey	Tier 2	FALSE	TRUE	FALSE
SOLEDAD 2105328826	SOLEDAD 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 21053720	SOLEDAD 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 2105399550	SOLEDAD 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 2105404754	SOLEDAD 2105	0.733875066		Monterey	Tier 2	FALSE	TRUE	FALSE
SOLEDAD 2105526864	SOLEDAD 2105	2.773596523		Monterey	Tier 2	FALSE	TRUE	FALSE
SOLEDAD 21057056	SOLEDAD 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SOLEDAD 2105CB	SOLEDAD 2105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1102113082	SONOMA 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1102118	SONOMA 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 110213367	SONOMA 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1102441730	SONOMA 1102	6.021693402		Sonoma	Tier 3	FALSE	TRUE	TRUE
SONOMA 1102CB	SONOMA 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 11033052	SONOMA 1103	0.087522342		Sonoma	Tier 3	TRUE	TRUE	TRUE
SONOMA 11033138	SONOMA 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1103470636	SONOMA 1103	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SONOMA 1103581588	SONOMA 1103	0.134795924		Sonoma	Tier 3	FALSE	TRUE	TRUE
SONOMA 1103849082	SONOMA 1103	4.645193157		Sonoma	Tier 3	TRUE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
SONOMA 1103880540	SONOMA 1103	7.832913426		Sonoma	Tier 3	FALSE	TRUE	TRUE
SONOMA 1103CB	SONOMA 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1104412	SONOMA 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1104414	SONOMA 1104	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SONOMA 11045661	SONOMA 1104	2.341410304		Sonoma	Tier 2	FALSE	TRUE	TRUE
SONOMA 1104578282	SONOMA 1104	0.691935368		Sonoma	Tier 2	FALSE	TRUE	TRUE
SONOMA 110478372	SONOMA 1104	16.22607454		Sonoma	Tier 2	FALSE	TRUE	TRUE
SONOMA 1104914376	SONOMA 1104	0.377634645		Sonoma	Tier 2	FALSE	TRUE	TRUE
SONOMA 1104CB	SONOMA 1104	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1105138	SONOMA 1105	0.037946412		Sonoma	Tier 2	TRUE	TRUE	TRUE
SONOMA 1105229588	SONOMA 1105	9.077813887		Sonoma	Tier 3	TRUE	TRUE	TRUE
SONOMA 1105308	SONOMA 1105	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SONOMA 11053742	SONOMA 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1105404	SONOMA 1105	2.170320123		Sonoma	Tier 2	FALSE	TRUE	TRUE
SONOMA 1105435024	SONOMA 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 11054456	SONOMA 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1105513138	SONOMA 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1105539450	SONOMA 1105	1.32751249		Sonoma	Tier 2	TRUE	TRUE	TRUE
SONOMA 1105575872	SONOMA 1105	1.003081186		Sonoma	Tier 2	TRUE	TRUE	FALSE
SONOMA 1105CB	SONOMA 1105	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 11061678	SONOMA 1106	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1106296492	SONOMA 1106	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SONOMA 1106376	SONOMA 1106	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1106510055	SONOMA 1106	0.13139606		Sonoma	Tier 3	FALSE	TRUE	TRUE
SONOMA 1106746130	SONOMA 1106	0.74449055		Sonoma	Tier 3	FALSE	TRUE	TRUE
SONOMA 1106CB	SONOMA 1106	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1107126	SONOMA 1107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 11071309	SONOMA 1107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1107294	SONOMA 1107	0.204873519		Sonoma	Tier 2	FALSE	TRUE	TRUE
SONOMA 110749132	SONOMA 1107	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
SONOMA 1107606	SONOMA 1107	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SONOMA 1107844168	SONOMA 1107	3.668951708		Sonoma	Tier 2	FALSE	TRUE	TRUE
SONOMA 1107CB	SONOMA 1107	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
SOQUEL 0402CB	SOQUEL 0402	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
SOTO 0402CB	SOTO 0402	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SPAULDING 1101578852	SPAULDING 1101	20.66193661		Nevada	Tier 3	TRUE	TRUE	TRUE
SPAULDING 1101CB	SPAULDING 1101	0.04427519		Nevada	Tier 2	FALSE	TRUE	TRUE
SPENCE 1102227476	SPENCE 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SPENCE 1102276712	SPENCE 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SPENCE 1102321000	SPENCE 1102	0.325349426		Monterey	Tier 2	FALSE	TRUE	FALSE
SPENCE 1102756550	SPENCE 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SPENCE 1102990464	SPENCE 1102	2.035039687		Monterey	Tier 2	FALSE	TRUE	TRUE
SPENCE 1102CB	SPENCE 1102	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SPENCE 1103150484	SPENCE 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SPENCE 1103345828	SPENCE 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SPENCE 1103581602	SPENCE 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SPENCE 1103CB	SPENCE 1103	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SPENCE 1104965598	SPENCE 1104	9.038016615		Monterey	Tier 2	FALSE	TRUE	TRUE
SPENCE 1104CB	SPENCE 1104	0		Monterey	Non-HFTD	TRUE	TRUE	FALSE
SPENCE 1105CB	SPENCE 1105	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
SPRING GAP 170210720	SPRING GAP 1702	4.806211513		Tuolumne	Tier 3	FALSE	TRUE	FALSE
SPRING GAP 1702188426	SPRING GAP 1702	0.002840918		Tuolumne	Tier 3	FALSE	TRUE	TRUE
SPRING GAP 1702693441	SPRING GAP 1702	4.326406279		Tuolumne	Tier 3	FALSE	TRUE	TRUE
SPRING GAP 170286032	SPRING GAP 1702	1.014559904		Tuolumne	Tier 3	FALSE	TRUE	FALSE
SPRING GAP 17029280	SPRING GAP 1702	6.424568467		Tuolumne	Tier 3	FALSE	TRUE	TRUE
SPRING GAP 17029690	SPRING GAP 1702	16.5811764		Tuolumne	Tier 3	FALSE	TRUE	TRUE
SPRING GAP 1702CB	SPRING GAP 1702	7.33505764		Tuolumne	Tier 3	FALSE	TRUE	TRUE
STAFFORD 11011082	STAFFORD 1101	1.067434231		Marin	Tier 2	FALSE	TRUE	TRUE
STAFFORD 1101CB	STAFFORD 1101	1.198897954		Marin	Tier 2	FALSE	TRUE	TRUE
STAFFORD 11021048	STAFFORD 1102	5.208430279		Marin	Tier 3	FALSE	TRUE	FALSE
STAFFORD 11021202	STAFFORD 1102	7.454794453		Marin	Tier 2	FALSE	TRUE	FALSE
STAFFORD 11021258	STAFFORD 1102	0.140796785		Marin	Tier 2	FALSE	TRUE	TRUE
STAFFORD 1102361952	STAFFORD 1102	1.429836911		Marin	Tier 2	FALSE	TRUE	FALSE
STAFFORD 110242542	STAFFORD 1102	0.630784393		Marin	Tier 2	FALSE	TRUE	TRUE
STAFFORD 1102524	STAFFORD 1102	6.072193018		Marin	Tier 3	FALSE	TRUE	TRUE
STAFFORD 11026121	STAFFORD 1102	0		Marin	Non-HFTD	FALSE	FALSE	FALSE
STAFFORD 1102784704	STAFFORD 1102	0.027927171		Marin	Tier 2	FALSE	TRUE	TRUE
STAFFORD 1102CB	STAFFORD 1102	0.453292226		Marin	Tier 2	FALSE	TRUE	TRUE
STAGG 110159806	STAGG 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 110186148	STAGG 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 11019210	STAGG 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 11019212	STAGG 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 1101CB	STAGG 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 110336598	STAGG 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 1103CB	STAGG 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 110514706	STAGG 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 1105CB	STAGG 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 1106CB	STAGG 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 210411476	STAGG 2104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21049472	STAGG 2104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21049948	STAGG 2104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 210511564	STAGG 2105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21056410	STAGG 2105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21056452	STAGG 2105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21056496	STAGG 2105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21056498	STAGG 2105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21056502	STAGG 2105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 2105CB	STAGG 2105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 210614574	STAGG 2106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 210659040	STAGG 2106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21066476	STAGG 2106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21066650	STAGG 2106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21066652	STAGG 2106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21066654	STAGG 2106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 210682812	STAGG 2106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 2106CB	STAGG 2106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 210741764	STAGG 2107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 210744270	STAGG 2107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 210763320	STAGG 2107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21076446	STAGG 2107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21076482	STAGG 2107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
STAGG 21077408	STAGG 2107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 210790102	STAGG 2107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 2107CB	STAGG 2107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21087410	STAGG 2108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 21088924	STAGG 2108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 210899882	STAGG 2108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STAGG 2108CB	STAGG 2108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STANISLAUS 17011331	STANISLAUS 1701	4.389041251		Calaveras	Tier 3	FALSE	TRUE	TRUE
STANISLAUS 17011812	STANISLAUS 1701	19.18691962		Calaveras	Tier 3	FALSE	TRUE	TRUE
STANISLAUS 17017144	STANISLAUS 1701	4.647562617		Calaveras	Tier 2	FALSE	TRUE	TRUE
STANISLAUS 170179826	STANISLAUS 1701	10.19203372		Calaveras	Tier 2	FALSE	TRUE	TRUE
STANISLAUS 1701CB	STANISLAUS 1701	36.29793568		Calaveras	Tier 2	FALSE	TRUE	TRUE
STANISLAUS 17021804	STANISLAUS 1702	8.357534311		Calaveras	Tier 3	FALSE	TRUE	TRUE
STANISLAUS 17021850	STANISLAUS 1702	14.5733951		Calaveras	Tier 3	FALSE	TRUE	TRUE
STANISLAUS 17021888	STANISLAUS 1702	18.97732958		Calaveras	Tier 3	FALSE	TRUE	TRUE
STANISLAUS 170237276	STANISLAUS 1702	11.57189365		Calaveras	Tier 3	FALSE	TRUE	TRUE
STANISLAUS 170237278	STANISLAUS 1702	6.792682623		Calaveras	Tier 3	FALSE	TRUE	TRUE
STANISLAUS 17024905	STANISLAUS 1702	2.301533914		Calaveras	Tier 3	FALSE	TRUE	TRUE
STANISLAUS 17026028	STANISLAUS 1702	8.307674285		Calaveras	Tier 3	FALSE	TRUE	TRUE
STANISLAUS 170275348	STANISLAUS 1702	5.299084018		Calaveras	Tier 3	FALSE	TRUE	TRUE
STANISLAUS 1702CB	STANISLAUS 1702	8.288153324		Calaveras	Tier 3	FALSE	TRUE	TRUE
STANISLAUS 1702L3151	STANISLAUS 1702	0.991340578		Calaveras	Tier 3	FALSE	TRUE	TRUE
STELLING 1102CB	STELLING 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1103CB	STELLING 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1103LL02	STELLING 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1104CB	STELLING 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1104LC120	STELLING 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1105CB	STELLING 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1106CB	STELLING 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 110760030	STELLING 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1107CB	STELLING 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1108332752	STELLING 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1108CB	STELLING 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1108LL08	STELLING 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1108LL20	STELLING 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1108LM42	STELLING 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1108LV06	STELLING 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 110913228	STELLING 1109	2.862300064		Santa Clara	Tier 2	FALSE	TRUE	TRUE
STELLING 1109CB	STELLING 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1110396595	STELLING 1110	0.203672886		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1110568350	STELLING 1110	11.5214294		Santa Clara	Tier 3	FALSE	TRUE	TRUE
STELLING 111060090	STELLING 1110	6.295994546		Santa Clara	Tier 2	FALSE	TRUE	TRUE
STELLING 111060094	STELLING 1110	9.623162954		Santa Cruz	Tier 3	FALSE	TRUE	TRUE
STELLING 1110733294	STELLING 1110	0.500890373		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1110881330	STELLING 1110	0.572878675		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 11109265	STELLING 1110	5.394875437		Santa Clara	Tier 2	FALSE	TRUE	TRUE
STELLING 1110CB	STELLING 1110	0.029461987		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1110LL72	STELLING 1110	0.024974107		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 111160020	STELLING 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1111CB	STELLING 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1111LL04	STELLING 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1111LM10	STELLING 1111	0.128885709		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1111LM40	STELLING 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1112CB	STELLING 1112	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1113CB	STELLING 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1113LL24	STELLING 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STELLING 1113LL28	STELLING 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STILLWATER 11011320	STILLWATER 1101	11.56779951		Shasta	Tier 2	FALSE	TRUE	TRUE
STILLWATER 1101217504	STILLWATER 1101	1.710481019		Shasta	Tier 2	FALSE	TRUE	TRUE
STILLWATER 110148950	STILLWATER 1101	11.16199437		Shasta	Tier 2	TRUE	TRUE	FALSE
STILLWATER 1101747294	STILLWATER 1101	3.695711063		Shasta	Tier 2	FALSE	TRUE	TRUE
STILLWATER 1101913434	STILLWATER 1101	2.504701039		Shasta	Tier 2	FALSE	TRUE	FALSE
STILLWATER 1101CB	STILLWATER 1101	3.77939548		Shasta	Tier 2	FALSE	TRUE	TRUE
STILLWATER 11021644	STILLWATER 1102	22.59551249		Shasta	Tier 2	TRUE	TRUE	TRUE
STILLWATER 110248952	STILLWATER 1102	10.55419625		Shasta	Tier 2	TRUE	TRUE	FALSE
STILLWATER 1102CB	STILLWATER 1102	24.95156315		Shasta	Tier 2	TRUE	TRUE	TRUE
STOCKDALE 110512306	STOCKDALE 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 11054502	STOCKDALE 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 1105CB	STOCKDALE 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 1106CB	STOCKDALE 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 11081521	STOCKDALE 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 1108CB	STOCKDALE 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 11092526	STOCKDALE 1109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 110946228	STOCKDALE 1109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 11094704	STOCKDALE 1109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 1109CB	STOCKDALE 1109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 1110CB	STOCKDALE 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 111114072	STOCKDALE 1111	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 11112172	STOCKDALE 1111	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 1111CB	STOCKDALE 1111	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21051503	STOCKDALE 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21054854	STOCKDALE 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 2105CB	STOCKDALE 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21063928	STOCKDALE 2106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 2106CB	STOCKDALE 2106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21074163	STOCKDALE 2107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21074712	STOCKDALE 2107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21074713	STOCKDALE 2107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 210788914	STOCKDALE 2107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 2107CB	STOCKDALE 2107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21081736	STOCKDALE 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21084115	STOCKDALE 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21084265	STOCKDALE 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21084267	STOCKDALE 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21084269	STOCKDALE 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 210899105	STOCKDALE 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 2108CB	STOCKDALE 2108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21094718	STOCKDALE 2109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 2109CB	STOCKDALE 2109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 211035420	STOCKDALE 2110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21104143	STOCKDALE 2110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
STOCKDALE 21104546	STOCKDALE 2110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 211073058	STOCKDALE 2110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 2110CB	STOCKDALE 2110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21114035	STOCKDALE 2111	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 2111CB	STOCKDALE 2111	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21121466	STOCKDALE 2112	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21122858	STOCKDALE 2112	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21124665	STOCKDALE 2112	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 2112CB	STOCKDALE 2112	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 2113203905	STOCKDALE 2113	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21134765	STOCKDALE 2113	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 2113CB	STOCKDALE 2113	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21144151	STOCKDALE 2114	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 21144236	STOCKDALE 2114	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 2114CB	STOCKDALE 2114	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKDALE 2115CB	STOCKDALE 2115	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 0404CB	STOCKTON A 0404	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 0405CB	STOCKTON A 0405	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 0406CB	STOCKTON A 0406	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 0410CB	STOCKTON A 0410	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 1101CB	STOCKTON A 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 1102CB	STOCKTON A 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 1103CB	STOCKTON A 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 110442574	STOCKTON A 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 110444086	STOCKTON A 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 1104CB	STOCKTON A 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 1105CB	STOCKTON A 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 110611700	STOCKTON A 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 110612484	STOCKTON A 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 1106CB	STOCKTON A 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 110737868	STOCKTON A 1107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 1107CB	STOCKTON A 1107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 110814362	STOCKTON A 1108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 110814708	STOCKTON A 1108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 1108CB	STOCKTON A 1108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 11097402	STOCKTON A 1109	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 11098586	STOCKTON A 1109	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 1109CB	STOCKTON A 1109	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 1110CB	STOCKTON A 1110	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON A 1111CB	STOCKTON A 1111	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON ACRES 0401CB	STOCKTON ACRES 0401	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STOCKTON ACRES 0402CB	STOCKTON ACRES 0402	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
STONE 110141435	STONE 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1101CB	STONE 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1101XR226	STONE 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1101XR470	STONE 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1101XR472	STONE 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1101XR478	STONE 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1104CB	STONE 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1104XR410	STONE 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1107CB	STONE 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1107XR166	STONE 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1107XR168	STONE 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1108CB	STONE 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 110942894	STONE 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 110995808	STONE 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1109CB	STONE 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1109XR490	STONE 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1109XR514	STONE 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1110CB	STONE 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1110XR456	STONE 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE 1110XR458	STONE 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 1108001	STONE CORRAL 1108	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 1108255186	STONE CORRAL 1108	5.686537856		Tulare	Tier 2	FALSE	TRUE	TRUE
STONE CORRAL 11087100	STONE CORRAL 1108	0		Tulare	Non-HFTD	TRUE	TRUE	FALSE
STONE CORRAL 11087310	STONE CORRAL 1108	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 11087592F	STONE CORRAL 1108	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 11087759F	STONE CORRAL 1108	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 110878844	STONE CORRAL 1108	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 1108CB	STONE CORRAL 1108	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 1109252006	STONE CORRAL 1109	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 1109CB	STONE CORRAL 1109	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 1110189488	STONE CORRAL 1110	0.737918746		Tulare	Tier 2	FALSE	TRUE	FALSE
STONE CORRAL 111048350	STONE CORRAL 1110	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 11107320	STONE CORRAL 1110	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 11107481F	STONE CORRAL 1110	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 111075288	STONE CORRAL 1110	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 11107778F	STONE CORRAL 1110	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STONE CORRAL 1110894956	STONE CORRAL 1110	0.653101207		Tulare	Tier 2	FALSE	TRUE	FALSE
STONE CORRAL 1110975698	STONE CORRAL 1110	0.618755659		Tulare	Tier 2	FALSE	TRUE	TRUE
STONE CORRAL 1110CB	STONE CORRAL 1110	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
STOREY 1104620474	STOREY 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11049300	STOREY 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 1104CB	STOREY 1104	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11052830	STOREY 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11059550	STOREY 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 1105CB	STOREY 1105	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 110623135	STOREY 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 1106315398	STOREY 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11066320	STOREY 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11066330	STOREY 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 1106CB	STOREY 1106	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 110713000	STOREY 1107	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 110741316	STOREY 1107	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 110749686	STOREY 1107	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 110765648	STOREY 1107	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 110789798	STOREY 1107	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 110799922	STOREY 1107	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 1107CB	STOREY 1107	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 1108191286	STOREY 1108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 1108239026	STOREY 1108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
STOREY 110838522	STOREY 1108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11086010	STOREY 1108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11086460	STOREY 1108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 110890070	STOREY 1108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 1108CB	STOREY 1108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 110921859	STOREY 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 110934630	STOREY 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11095140	STOREY 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11095200	STOREY 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11095270	STOREY 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11095580	STOREY 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11095680	STOREY 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11096230	STOREY 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11096250	STOREY 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 1109CB	STOREY 1109	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 11115390	STOREY 1111	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STOREY 1111CB	STOREY 1111	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
STROUD 1101848548	STROUD 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
STROUD 11019520	STROUD 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
STROUD 1101CB	STROUD 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
STROUD 1102877462	STROUD 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
STROUD 11029480	STROUD 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
STROUD 1102CB	STROUD 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
STROUD 1104342914	STROUD 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
STROUD 1104809407	STROUD 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
STROUD 1104CB	STROUD 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
STROUD 1104R435	STROUD 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
STUART 0401CB	STUART 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
STUART 0402CB	STUART 0402	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
STUART 0403CB	STUART 0403	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
STUART 0404CB	STUART 0404	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
STUART 0405CB	STUART 0405	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
STUART 0406CB	STUART 0406	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 1101CB	SUISUN 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 110247992	SUISUN 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 1102CB	SUISUN 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 1103502542	SUISUN 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 1103CB	SUISUN 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 110418802	SUISUN 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 110447404	SUISUN 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 1104CB	SUISUN 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 1105CB	SUISUN 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 1106CB	SUISUN 1106	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
SUISUN 110738516	SUISUN 1107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 110746732	SUISUN 1107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 110779930	SUISUN 1107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 1107CB	SUISUN 1107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 1108CB	SUISUN 1108	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 1109CB	SUISUN 1109	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 1110CB	SUISUN 1110	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 1111CB	SUISUN 1111	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SUISUN 1112CB	SUISUN 1112	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
SULLIVAN 0402CB	SULLIVAN 0402	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
SUMMIT 110147786	SUMMIT 1101	1.811230649		Nevada	Tier 2	FALSE	TRUE	TRUE
SUMMIT 110148632	SUMMIT 1101	2.737703127		Nevada	Tier 2	FALSE	TRUE	TRUE
SUMMIT 110148636	SUMMIT 1101	1.456153548		Placer	Tier 2	FALSE	TRUE	FALSE
SUMMIT 11016627	SUMMIT 1101	0.565684205		Nevada	Tier 2	TRUE	TRUE	TRUE
SUMMIT 110168706	SUMMIT 1101	0.607604062		Placer	Non-HFTD	FALSE	FALSE	FALSE
SUMMIT 1101742	SUMMIT 1101	1.309673627		Nevada	Tier 2	FALSE	TRUE	TRUE
SUMMIT 110186658	SUMMIT 1101	0.635766529		Nevada	Tier 2	FALSE	TRUE	TRUE
SUMMIT 1101CB	SUMMIT 1101	0.137347511		Nevada	Tier 2	FALSE	TRUE	TRUE
SUMMIT 11022302	SUMMIT 1102	1.340775335		Placer	Tier 2	FALSE	TRUE	TRUE
SUMMIT 110249484	SUMMIT 1102	2.647421054		Nevada	Tier 2	FALSE	TRUE	TRUE
SUMMIT 1102CB	SUMMIT 1102	1.055797261		Placer	Tier 2	FALSE	TRUE	TRUE
SUNOL 1101298061	SUNOL 1101	4.936935754		Alameda	Tier 3	FALSE	TRUE	TRUE
SUNOL 110148180	SUNOL 1101	0.013142106		Alameda	Tier 2	FALSE	TRUE	TRUE
SUNOL 1101605520	SUNOL 1101	5.426623721		Alameda	Tier 2	FALSE	TRUE	TRUE
SUNOL 1101904308	SUNOL 1101	5.055953238		Alameda	Tier 3	FALSE	TRUE	TRUE
SUNOL 1101CB	SUNOL 1101	3.298930055		Alameda	Tier 2	FALSE	TRUE	TRUE
SUNOL 1101MR169	SUNOL 1101	2.885058249		Alameda	Tier 2	FALSE	TRUE	TRUE
SUNOL 1101MR297	SUNOL 1101	5.932817375		Alameda	Tier 3	FALSE	TRUE	TRUE
SUNOL 1101MR387	SUNOL 1101	4.905035249		Alameda	Tier 2	FALSE	TRUE	TRUE
SUNOL 1101MR650	SUNOL 1101	1.010363736		Alameda	Tier 3	FALSE	TRUE	TRUE
SWIFT 2102889948	SWIFT 2102	0.809782759		Santa Clara	Tier 2	FALSE	TRUE	FALSE
SWIFT 2102CB	SWIFT 2102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2102XR440	SWIFT 2102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 210646779	SWIFT 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2106918614	SWIFT 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2106CB	SWIFT 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2106XR058	SWIFT 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2106XR060	SWIFT 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2106XR088	SWIFT 2106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2107CB	SWIFT 2107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2107XR086	SWIFT 2107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2107XR102	SWIFT 2107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2107XR356	SWIFT 2107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2107XR526	SWIFT 2107	2.317632431		Santa Clara	Tier 2	FALSE	TRUE	FALSE
SWIFT 2108CB	SWIFT 2108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2108XR364	SWIFT 2108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2109CB	SWIFT 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2109XR300	SWIFT 2109	0.147221949		Santa Clara	Tier 2	FALSE	TRUE	TRUE
SWIFT 2109XR386	SWIFT 2109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2110616022	SWIFT 2110	15.58855856		Santa Clara	Tier 2	FALSE	TRUE	TRUE
SWIFT 2110853720	SWIFT 2110	30.40723453		Santa Clara	Tier 2	FALSE	TRUE	TRUE
SWIFT 2110CB	SWIFT 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2110XR092	SWIFT 2110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2110XR254	SWIFT 2110	9.130260407		Santa Clara	Tier 2	FALSE	TRUE	TRUE
SWIFT 2110XR332	SWIFT 2110	18.07543355		Santa Clara	Tier 2	TRUE	TRUE	TRUE
SWIFT 2110XR366	SWIFT 2110	8.109478061		Santa Clara	Tier 2	FALSE	TRUE	TRUE
SWIFT 2111CB	SWIFT 2111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SWIFT 2111XR314	SWIFT 2111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
SWIFT 2111XR316	SWIFT 2111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 1101CB	SYCAMORE CREEK 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 11022536	SYCAMORE CREEK 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 110272104	SYCAMORE CREEK 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 1102CB	SYCAMORE CREEK 1102	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
SYCAMORE CREEK 1103CB	SYCAMORE CREEK 1103	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 1104CB	SYCAMORE CREEK 1104	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
SYCAMORE CREEK 11051763	SYCAMORE CREEK 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 11055315	SYCAMORE CREEK 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 110576092	SYCAMORE CREEK 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 1105CB	SYCAMORE CREEK 1105	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 11072250	SYCAMORE CREEK 1107	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 1107CB	SYCAMORE CREEK 1107	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 11092458	SYCAMORE CREEK 1109	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 110979474	SYCAMORE CREEK 1109	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 1109CB	SYCAMORE CREEK 1109	0.129576632		Butte	Tier 2	FALSE	TRUE	TRUE
SYCAMORE CREEK 11102570	SYCAMORE CREEK 1110	0		Butte	Non-HFTD	TRUE	TRUE	FALSE
SYCAMORE CREEK 1110CB	SYCAMORE CREEK 1110	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 1111153260	SYCAMORE CREEK 1111	0.263746643		Butte	Tier 2	FALSE	TRUE	FALSE
SYCAMORE CREEK 11112014	SYCAMORE CREEK 1111	22.22546926		Butte	Tier 3	TRUE	TRUE	TRUE
SYCAMORE CREEK 11112268	SYCAMORE CREEK 1111	20.95487272		Butte	Tier 3	TRUE	TRUE	TRUE
SYCAMORE CREEK 11112544	SYCAMORE CREEK 1111	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 11112602	SYCAMORE CREEK 1111	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
SYCAMORE CREEK 1111391406	SYCAMORE CREEK 1111	0.74436894		Butte	Tier 3	TRUE	TRUE	FALSE
SYCAMORE CREEK 1111579750	SYCAMORE CREEK 1111	6.416982885		Butte	Tier 2	TRUE	TRUE	TRUE
SYCAMORE CREEK 1111976428	SYCAMORE CREEK 1111	1.603810533		Butte	Tier 2	TRUE	TRUE	TRUE
SYCAMORE CREEK 1111CB	SYCAMORE CREEK 1111	0.249843605		Butte	Tier 2	FALSE	TRUE	TRUE
TAFT 11013512	TAFT 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAFT 110136578	TAFT 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAFT 110189056	TAFT 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAFT 1101CB	TAFT 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAFT 1102CB	TAFT 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAFT 11033068	TAFT 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAFT 1103CB	TAFT 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAFT 11041556	TAFT 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAFT 110439520	TAFT 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAFT 1104CB	TAFT 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAFT 11061666	TAFT 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAFT 11063065	TAFT 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAFT 1106CB	TAFT 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAFT 1108CB	TAFT 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TAMARACK 1101291312	TAMARACK 1101	1.389744037		Nevada	Tier 2	FALSE	TRUE	FALSE
TAMARACK 1101CB	TAMARACK 1101	17.46869258		Nevada	Tier 2	FALSE	TRUE	TRUE
TAMARACK 1102482896	TAMARACK 1102	0.276176399		Placer	Non-HFTD	FALSE	FALSE	FALSE
TAMARACK 1102CB	TAMARACK 1102	0.034677425		Placer	Non-HFTD	FALSE	FALSE	FALSE
TAR FLAT 0401922858	TAR FLAT 0401	3.15728973		Tuolumne	Tier 3	FALSE	TRUE	TRUE
TAR FLAT 0401CB	TAR FLAT 0401	0		Tuolumne	Non-HFTD	FALSE	FALSE	FALSE
TAR FLAT 04023144	TAR FLAT 0402	4.861043288		Tuolumne	Tier 3	FALSE	TRUE	TRUE
TAR FLAT 0402327672	TAR FLAT 0402	0		Tuolumne	Non-HFTD	FALSE	FALSE	FALSE
TAR FLAT 0402588710	TAR FLAT 0402	0.544683746		Tuolumne	Tier 2	FALSE	TRUE	TRUE
TAR FLAT 0402CB	TAR FLAT 0402	0		Tuolumne	Non-HFTD	FALSE	FALSE	FALSE
TARAVAL 0401CB	TARAVAL 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
TARAVAL 0402CB	TARAVAL 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
TARAVAL 0403CB	TARAVAL 0403	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
TASSAJARA 21032705	TASSAJARA 2103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TASSAJARA 2103883664	TASSAJARA 2103	0.090594286		Contra Costa	Tier 2	FALSE	TRUE	TRUE
TASSAJARA 2103CB	TASSAJARA 2103	0.388075558		Contra Costa	Tier 3	FALSE	TRUE	TRUE
TASSAJARA 2104CB	TASSAJARA 2104	5.925422597		Contra Costa	Tier 3	FALSE	TRUE	TRUE
TASSAJARA 2106203380	TASSAJARA 2106	0.347728021		Contra Costa	Tier 2	FALSE	TRUE	TRUE
TASSAJARA 2106CB	TASSAJARA 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TASSAJARA 210791094	TASSAJARA 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TASSAJARA 2107CB	TASSAJARA 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TASSAJARA 210812712	TASSAJARA 2108	0.731876439		Contra Costa	Tier 3	FALSE	TRUE	TRUE
TASSAJARA 2108189700	TASSAJARA 2108	0.128605102		Contra Costa	Tier 3	FALSE	TRUE	TRUE
TASSAJARA 2108437582	TASSAJARA 2108	0.687079101		Contra Costa	Tier 3	FALSE	TRUE	TRUE
TASSAJARA 210865438	TASSAJARA 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TASSAJARA 210875010	TASSAJARA 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TASSAJARA 210883368	TASSAJARA 2108	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
TASSAJARA 2108954811	TASSAJARA 2108	0.152328489		Contra Costa	Tier 3	FALSE	TRUE	TRUE
TASSAJARA 2108CB	TASSAJARA 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TASSAJARA 2108D520R	TASSAJARA 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TASSAJARA 2109CB	TASSAJARA 2109	2.892710216		Contra Costa	Tier 2	FALSE	TRUE	TRUE
TASSAJARA 21123202	TASSAJARA 2112	0.394111389		Contra Costa	Tier 3	FALSE	TRUE	TRUE
TASSAJARA 211238868	TASSAJARA 2112	1.484928982		Contra Costa	Tier 2	FALSE	TRUE	TRUE
TASSAJARA 2112676362	TASSAJARA 2112	3.042065609		Contra Costa	Tier 3	FALSE	TRUE	TRUE
TASSAJARA 2112725488	TASSAJARA 2112	2.373515343		Contra Costa	Tier 3	FALSE	TRUE	TRUE
TASSAJARA 2112791386	TASSAJARA 2112	2.411177637		Contra Costa	Tier 3	FALSE	TRUE	TRUE
TASSAJARA 2112900058	TASSAJARA 2112	0.063546462		Contra Costa	Tier 2	FALSE	TRUE	TRUE
TASSAJARA 2112CB	TASSAJARA 2112	0.138624323		Contra Costa	Tier 2	FALSE	TRUE	TRUE
TASSAJARA 2112D514R	TASSAJARA 2112	0.444601539		Contra Costa	Tier 2	FALSE	TRUE	TRUE
TASSAJARA 2112D569R	TASSAJARA 2112	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TASSAJARA 2113CB	TASSAJARA 2113	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TASSAJARA 2113MR276	TASSAJARA 2113	3.822700795		Contra Costa	Tier 3	FALSE	TRUE	TRUE
TASSAJARA 2113MR280	TASSAJARA 2113	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TASSAJARA 2113MR457	TASSAJARA 2113	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TECUYA 1101CB	TECUYA 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEJON 11022455	TEJON 1102	6.319075337		Kern	Tier 2	FALSE	TRUE	TRUE
TEJON 11023751	TEJON 1102	8.738755392		Kern	Tier 2	FALSE	TRUE	TRUE
TEJON 11023760	TEJON 1102	6.476738584		Kern	Tier 2	FALSE	TRUE	TRUE
TEJON 11024525	TEJON 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEJON 1102732836	TEJON 1102	15.57260385		Kern	Tier 2	FALSE	TRUE	TRUE
TEJON 1102CB	TEJON 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEJON 1103145334	TEJON 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEJON 1103286542	TEJON 1103	2.963711825		Kern	Tier 2	FALSE	TRUE	FALSE
TEJON 1103CB	TEJON 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEJON 110595130	TEJON 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEJON 1105CB	TEJON 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEJON 1106961986	TEJON 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEJON 1106CB	TEJON 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEJON 1106CUS3626	TEJON 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEJON 1107CB	TEJON 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
TEMBLOR 11041034	TEMBLOR 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEMBLOR 110414233	TEMBLOR 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEMBLOR 11043013	TEMBLOR 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEMBLOR 110437694	TEMBLOR 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEMBLOR 110437696	TEMBLOR 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEMBLOR 110459326	TEMBLOR 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEMBLOR 11049126	TEMBLOR 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEMBLOR 1104CB	TEMBLOR 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEMBLOR 2103642990	TEMBLOR 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEMBLOR 2103768638	TEMBLOR 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEMBLOR 2103CB	TEMBLOR 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEMBLOR 2103CUST	TEMBLOR 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 21085777	TEMPLETON 2108	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2108A40	TEMPLETON 2108	3.366125908		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2108A64	TEMPLETON 2108	1.990064771		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2108CB	TEMPLETON 2108	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2109313404	TEMPLETON 2109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2109868666	TEMPLETON 2109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2109CB	TEMPLETON 2109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2109P14	TEMPLETON 2109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2109P32	TEMPLETON 2109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2109P60	TEMPLETON 2109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2109P68	TEMPLETON 2109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2109R34	TEMPLETON 2109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2109R50	TEMPLETON 2109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2109R52	TEMPLETON 2109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2109R74	TEMPLETON 2109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2109R78	TEMPLETON 2109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2109R92	TEMPLETON 2109	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2110211842	TEMPLETON 2110	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2110307832	TEMPLETON 2110	3.255250036		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2110317796	TEMPLETON 2110	4.344450878		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
TEMPLETON 2110901690	TEMPLETON 2110	36.92338219		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
TEMPLETON 2110941946	TEMPLETON 2110	23.91552555		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2110CB	TEMPLETON 2110	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2110N30	TEMPLETON 2110	19.77599809		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2110N32	TEMPLETON 2110	28.32070501		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
TEMPLETON 2110R02	TEMPLETON 2110	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2110R06	TEMPLETON 2110	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2110R90	TEMPLETON 2110	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2110R94	TEMPLETON 2110	14.4081373		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2111514592	TEMPLETON 2111	2.179714986		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2111A66	TEMPLETON 2111	34.03721843		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
TEMPLETON 2111CB	TEMPLETON 2111	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2111R38	TEMPLETON 2111	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2111R76	TEMPLETON 2111	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2111R86	TEMPLETON 2111	10.60174515		San Luis Obispo	Tier 3	FALSE	TRUE	FALSE
TEMPLETON 2112116402	TEMPLETON 2112	2.434895321		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2112238418	TEMPLETON 2112	0.167086592		San Luis Obispo	Tier 2	FALSE	TRUE	FALSE
TEMPLETON 2112CB	TEMPLETON 2112	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2112R28	TEMPLETON 2112	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2112R80	TEMPLETON 2112	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2112R98	TEMPLETON 2112	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2113175566	TEMPLETON 2113	6.568083803		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
TEMPLETON 21132949	TEMPLETON 2113	0.487341428		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2113641367	TEMPLETON 2113	39.06702875		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
TEMPLETON 2113848137	TEMPLETON 2113	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2113A08	TEMPLETON 2113	8.67101273		San Luis Obispo	Tier 3	TRUE	TRUE	TRUE
TEMPLETON 2113A10	TEMPLETON 2113	30.77972579		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
TEMPLETON 2113A12	TEMPLETON 2113	40.80079969		San Luis Obispo	Tier 3	TRUE	TRUE	TRUE
TEMPLETON 2113A20	TEMPLETON 2113	7.175808515		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2113A24	TEMPLETON 2113	0		San Luis Obispo	Non-HFTD	FALSE	FALSE	FALSE
TEMPLETON 2113A30	TEMPLETON 2113	0.242296032		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2113A32	TEMPLETON 2113	1.202974288		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2113A70	TEMPLETON 2113	23.86077803		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2113CB	TEMPLETON 2113	0.072870489		San Luis Obispo	Tier 2	FALSE	TRUE	TRUE
TEMPLETON 2113R82	TEMPLETON 2113	39.51691157		San Luis Obispo	Tier 3	FALSE	TRUE	TRUE
TEMPORARY CARBONA 1101569492	TEMPORARY CARBONA 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TEMPORARY CARBONA 110158036	TEMPORARY CARBONA 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TEMPORARY CARBONA 1101589262	TEMPORARY CARBONA 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TEMPORARY CARBONA 1101CB	TEMPORARY CARBONA 1101	0		San Joaquin	Non-HFTD	TRUE	TRUE	FALSE
TEMPORARY CARBONA 1102246696	TEMPORARY CARBONA 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TEMPORARY CARBONA 1102CB	TEMPORARY CARBONA 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TEMPORARY CARBONA 110411720	TEMPORARY CARBONA 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TEMPORARY CARBONA 1104338232	TEMPORARY CARBONA 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TEMPORARY CARBONA 110446431	TEMPORARY CARBONA 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TEMPORARY CARBONA 1104CB	TEMPORARY CARBONA 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TEMPORARY CARBONA 1105302540	TEMPORARY CARBONA 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TEMPORARY CARBONA 1105CB	TEMPORARY CARBONA 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TERMINOUS 110214618	TERMINOUS 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TERMINOUS 110285346	TERMINOUS 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TERMINOUS 1102CB	TERMINOUS 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TERMINOUS 110311906	TERMINOUS 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TERMINOUS 1103CB	TERMINOUS 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TEVIS 21011007	TEVIS 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEVIS 21011515	TEVIS 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEVIS 21012439	TEVIS 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEVIS 21014690	TEVIS 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEVIS 2101CB	TEVIS 2101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEVIS 21021504	TEVIS 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEVIS 2102CB	TEVIS 2102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEVIS 2103CB	TEVIS 2103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEVIS 2104145344	TEVIS 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEVIS 21044401	TEVIS 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEVIS 2104CB	TEVIS 2104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEVIS 21054116	TEVIS 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEVIS 2105CB	TEVIS 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TEXACO EMIDIO 1101CB	TEXACO EMIDIO 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2104226374	TIDEWATER 2104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210447828	TIDEWATER 2104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210487978	TIDEWATER 2104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE

Workpaper 032
Pacific Gas and Electric Company
Electrical Undergrounding Program
Circuit Segment List
(Continued)

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
TIDEWATER 2104CB	TIDEWATER 2104	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2105992888	TIDEWATER 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2105CB	TIDEWATER 2105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210614072	TIDEWATER 2106	2.714285998		Contra Costa	Tier 2	FALSE	TRUE	TRUE
TIDEWATER 210618972	TIDEWATER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210618982	TIDEWATER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210638108	TIDEWATER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210638866	TIDEWATER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210657926	TIDEWATER 2106	0.06737925		Contra Costa	Tier 2	FALSE	TRUE	TRUE
TIDEWATER 210665866	TIDEWATER 2106	0.898879467		Contra Costa	Tier 2	FALSE	TRUE	TRUE
TIDEWATER 2106703654	TIDEWATER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2106875792	TIDEWATER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210695842	TIDEWATER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2106C514R	TIDEWATER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2106CB	TIDEWATER 2106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 21072152	TIDEWATER 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210749626	TIDEWATER 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210756052	TIDEWATER 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2107CB	TIDEWATER 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2107M517R	TIDEWATER 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2107M522R	TIDEWATER 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210837382	TIDEWATER 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2108520863	TIDEWATER 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2108802500	TIDEWATER 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2108C551R	TIDEWATER 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2108CB	TIDEWATER 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 21091784	TIDEWATER 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210949552	TIDEWATER 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210965264	TIDEWATER 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210967868	TIDEWATER 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 210978302	TIDEWATER 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2109878884	TIDEWATER 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 21098830	TIDEWATER 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 21098835	TIDEWATER 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2109CB	TIDEWATER 2109	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2110C561R	TIDEWATER 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2110C594R	TIDEWATER 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIDEWATER 2110CB	TIDEWATER 2110	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
TIGER CREEK 0201320746	TIGER CREEK 0201	3.515838223		Amador	Tier 3	FALSE	TRUE	TRUE
TIGER CREEK 0201CB	TIGER CREEK 0201	0.258251178		Amador	Tier 3	FALSE	TRUE	TRUE
TIVY VALLEY 11067150	TIVY VALLEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
TIVY VALLEY 11067210	TIVY VALLEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
TIVY VALLEY 1106CB	TIVY VALLEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
TIVY VALLEY 1106D8492	TIVY VALLEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
TIVY VALLEY 1106R1450	TIVY VALLEY 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
TIVY VALLEY 1107248306	TIVY VALLEY 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
TIVY VALLEY 110737522	TIVY VALLEY 1107	0.48417674		Fresno	Tier 2	FALSE	TRUE	TRUE
TIVY VALLEY 1107584840	TIVY VALLEY 1107	44.65183389		Fresno	Tier 2	TRUE	TRUE	FALSE
TIVY VALLEY 1107599142	TIVY VALLEY 1107	0.022822066		Fresno	Tier 2	FALSE	TRUE	TRUE
TIVY VALLEY 11077380	TIVY VALLEY 1107	11.88221391		Fresno	Tier 2	FALSE	TRUE	TRUE
TIVY VALLEY 1107822606	TIVY VALLEY 1107	30.57376548		Fresno	Tier 2	FALSE	TRUE	TRUE
TIVY VALLEY 1107869946	TIVY VALLEY 1107	29.12419481		Fresno	Tier 2	FALSE	TRUE	FALSE
TIVY VALLEY 1107CB	TIVY VALLEY 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
TOCALOMA 0241CB	TOCALOMA 0241	0.053835566		Marin	Tier 2	FALSE	TRUE	FALSE
TOKAY 1101CB	TOKAY 1101	0		Sacramento	Non-HFTD	FALSE	FALSE	FALSE
TRACY 0402CB	TRACY 0402	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 0405CB	TRACY 0405	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 110214018	TRACY 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 110266306	TRACY 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 1102CB	TRACY 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 110313302	TRACY 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 1103CB	TRACY 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 110412866	TRACY 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 1104CB	TRACY 1104	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 110514012	TRACY 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 1105CB	TRACY 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 110611538	TRACY 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 110613296	TRACY 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 1106352284	TRACY 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 110685274	TRACY 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 1106CB	TRACY 1106	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 1107CB	TRACY 1107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 1109CB	TRACY 1109	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 111011900	TRACY 1110	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 1110CB	TRACY 1110	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 1111CB	TRACY 1111	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 111213998	TRACY 1112	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRACY 1112CB	TRACY 1112	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
TRES PINOS 1111203126	TRES PINOS 1111	0.107009705		San Benito	Tier 2	FALSE	TRUE	TRUE
TRES PINOS 11114032	TRES PINOS 1111	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
TRES PINOS 11114064	TRES PINOS 1111	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
TRES PINOS 1111CB	TRES PINOS 1111	0		San Benito	Non-HFTD	FALSE	FALSE	FALSE
TRES VIAS 11011968	TRES VIAS 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
TRES VIAS 11011970	TRES VIAS 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
TRES VIAS 11011982	TRES VIAS 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
TRES VIAS 11012618	TRES VIAS 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
TRES VIAS 110147580	TRES VIAS 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
TRES VIAS 11015667	TRES VIAS 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
TRES VIAS 11015673	TRES VIAS 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
TRES VIAS 110175132	TRES VIAS 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
TRES VIAS 110194094	TRES VIAS 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
TRES VIAS 1101CB	TRES VIAS 1101	0		Butte	Non-HFTD	FALSE	FALSE	FALSE
TRIDAM POWERHOUSE 2101CB	TRIDAM POWERHOUSE 2101	0.050741879		Tuolumne	Tier 3	FALSE	TRUE	TRUE
TRIMBLE 1103CB	TRIMBLE 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
TRIMBLE 1103XR342	TRIMBLE 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
TRIMBLE 1104CB	TRIMBLE 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
TRIMBLE 1105CB	TRIMBLE 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
TRIMBLE 1105XR126	TRIMBLE 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
TRIMBLE 1106CB	TRIMBLE 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
TRIMBLE 1107CB	TRIMBLE 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
TRIMBLE 1110CB	TRIMBLE 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
TRIMBLE 2114251462	TRIMBLE 2114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
TRIMBLE 2115CB	TRIMBLE 2115	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
TRIMBLE 2116CB	TRIMBLE 2116	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
TRIMBLE 2116XR360	TRIMBLE 2116	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
TRIMBLE 2118CB	TRIMBLE 2118	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
TRINIDAD 110137474	TRINIDAD 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
TRINIDAD 1101495696	TRINIDAD 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
TRINIDAD 1101CB	TRINIDAD 1101	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
TRINIDAD 11021032	TRINIDAD 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
TRINIDAD 1102314118	TRINIDAD 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
TRINIDAD 110233936	TRINIDAD 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
TRINIDAD 110246990	TRINIDAD 1102	0.253409479		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
TRINIDAD 1102CB	TRINIDAD 1102	0		Humboldt	Non-HFTD	FALSE	FALSE	FALSE
TUDOR 11011234	TUDOR 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
TUDOR 11011236	TUDOR 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
TUDOR 1101CB	TUDOR 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
TUDOR 11022298	TUDOR 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
TUDOR 11027448	TUDOR 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
TUDOR 1102CB	TUDOR 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 1104225890	TULARE LAKE 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 1104378350	TULARE LAKE 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 1104748282	TULARE LAKE 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 1104884818	TULARE LAKE 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 110491874	TULARE LAKE 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 1104CB	TULARE LAKE 1104	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 1106109984	TULARE LAKE 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 1106565102	TULARE LAKE 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 110675538	TULARE LAKE 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 110693686	TULARE LAKE 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 1106CB	TULARE LAKE 1106	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 110854074	TULARE LAKE 1108	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 110876864	TULARE LAKE 1108	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 11089050	TULARE LAKE 1108	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 1108943184	TULARE LAKE 1108	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 11089910	TULARE LAKE 1108	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULARE LAKE 1108CB	TULARE LAKE 1108	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TULE POWER HOUSE 1101CB	TULE POWER HOUSE 1101	4.069540597		Tulare	Tier 2	FALSE	TRUE	TRUE
TULUCAY 1101137224	TULUCAY 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
TULUCAY 11012280	TULUCAY 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
TULUCAY 1101323426	TULUCAY 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
TULUCAY 1101504524	TULUCAY 1101	0.076184106		Napa	Tier 2	FALSE	TRUE	TRUE
TULUCAY 1101613014	TULUCAY 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
TULUCAY 1101628	TULUCAY 1101	3.692563105		Napa	Tier 2	FALSE	TRUE	TRUE
TULUCAY 1101684	TULUCAY 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
TULUCAY 1101926496	TULUCAY 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
TULUCAY 11019999	TULUCAY 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
TULUCAY 1101CB	TULUCAY 1101	0		Napa	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 11031188	TUPMAN 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 11031190	TUPMAN 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 110375380	TUPMAN 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 1103CB	TUPMAN 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 11041527	TUPMAN 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 11041742	TUPMAN 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 11042705	TUPMAN 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 1104CB	TUPMAN 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 11054107	TUPMAN 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 1105CB	TUPMAN 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 110616222	TUPMAN 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 11064890	TUPMAN 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 11064981	TUPMAN 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TUPMAN 1106CB	TUPMAN 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TWISSELMAN 1101CB	TWISSELMAN 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TWISSELMAN 1102398782	TWISSELMAN 1102	0		Kings	Non-HFTD	FALSE	FALSE	FALSE
TWISSELMAN 1102CB	TWISSELMAN 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TWISSELMAN 1104CB	TWISSELMAN 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TWISSELMAN 21051139	TWISSELMAN 2105	0		Kern	Non-HFTD	TRUE	TRUE	FALSE
TWISSELMAN 21053264	TWISSELMAN 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TWISSELMAN 21054320	TWISSELMAN 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TWISSELMAN 2105576496	TWISSELMAN 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TWISSELMAN 2105623146	TWISSELMAN 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TWISSELMAN 2105CB	TWISSELMAN 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TWISSELMAN 2105CUS4824	TWISSELMAN 2105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
TYLER 1103CB	TYLER 1103	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
TYLER 11041522	TYLER 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
TYLER 11041528	TYLER 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
TYLER 11049082	TYLER 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
TYLER 1104CB	TYLER 1104	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
TYLER 11051536	TYLER 1105	18.03628415		Tehama	Tier 2	FALSE	TRUE	FALSE
TYLER 11051704	TYLER 1105	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
TYLER 1105503690	TYLER 1105	31.98368336		Tehama	Tier 2	FALSE	TRUE	TRUE
TYLER 1105816852	TYLER 1105	12.24204291		Tehama	Tier 2	FALSE	TRUE	TRUE
TYLER 1105CB	TYLER 1105	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
UKIAH 1111144510	UKIAH 1111	1.49306354		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1111379946	UKIAH 1111	0.259752777		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1111422886	UKIAH 1111	0.06824305		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1111433984	UKIAH 1111	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
UKIAH 1111477890	UKIAH 1111	0.899027378		Mendocino	Tier 2	FALSE	TRUE	FALSE
UKIAH 1111789282	UKIAH 1111	1.418838191		Mendocino	Tier 2	FALSE	TRUE	FALSE
UKIAH 1111807988	UKIAH 1111	3.696070625		Mendocino	Tier 2	FALSE	TRUE	FALSE
UKIAH 1111CB	UKIAH 1111	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
UKIAH 1113548420	UKIAH 1113	5.07996686		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1113691436	UKIAH 1113	1.506054127		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1113968652	UKIAH 1113	0.989495759		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1113CB	UKIAH 1113	0.577168015		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1114206824	UKIAH 1114	10.42772606		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1114408	UKIAH 1114	37.1895837		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1114528	UKIAH 1114	2.619734031		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1114544	UKIAH 1114	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
UKIAH 111472990	UKIAH 1114	0.675993585		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1114822	UKIAH 1114	0.14149798		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1114844294	UKIAH 1114	2.044210127		Mendocino	Tier 2	FALSE	TRUE	FALSE

Workpaper 032
Pacific Gas and Electric Company
Electrical Undergrounding Program
Circuit Segment List
(Continued)

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
UKIAH 1114911132	UKIAH 1114	0.195138178		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1114943840	UKIAH 1114	0.539361277		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1114CB	UKIAH 1114	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
UKIAH 11151216	UKIAH 1115	12.475953		Mendocino	Tier 2	FALSE	TRUE	TRUE
UKIAH 1115168892	UKIAH 1115	0.093980213		Mendocino	Tier 2	FALSE	TRUE	FALSE
UKIAH 1115534	UKIAH 1115	18.35691047		Mendocino	Tier 2	FALSE	TRUE	FALSE
UKIAH 1115899594	UKIAH 1115	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
UKIAH 1115CB	UKIAH 1115	4.202230246		Mendocino	Tier 2	FALSE	TRUE	TRUE
UPPER LAKE 1101412	UPPER LAKE 1101	9.515236088		Lake	Tier 2	TRUE	TRUE	TRUE
UPPER LAKE 110142378	UPPER LAKE 1101	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
UPPER LAKE 1101452	UPPER LAKE 1101	0		Lake	Non-HFTD	FALSE	FALSE	FALSE
UPPER LAKE 1101472084	UPPER LAKE 1101	4.649787467		Lake	Tier 2	FALSE	TRUE	TRUE
UPPER LAKE 1101660	UPPER LAKE 1101	4.987542181		Lake	Tier 2	TRUE	TRUE	TRUE
UPPER LAKE 110175370	UPPER LAKE 1101	12.73635816		Lake	Tier 3	TRUE	TRUE	TRUE
UPPER LAKE 1101861806	UPPER LAKE 1101	4.053077966		Lake	Tier 2	TRUE	TRUE	TRUE
UPPER LAKE 1101CB	UPPER LAKE 1101	1.096989717		Lake	Tier 2	FALSE	TRUE	TRUE
VACA DIXON 1101139898	VACA DIXON 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 110118292	VACA DIXON 1101	0.401148889		Solano	Tier 2	FALSE	TRUE	TRUE
VACA DIXON 1101392848	VACA DIXON 1101	10.37991684		Solano	Tier 2	TRUE	TRUE	TRUE
VACA DIXON 1101454328	VACA DIXON 1101	1.559010907		Solano	Tier 2	TRUE	TRUE	TRUE
VACA DIXON 1101604552	VACA DIXON 1101	7.999180728		Solano	Tier 2	TRUE	TRUE	TRUE
VACA DIXON 1101628308	VACA DIXON 1101	2.38253309		Solano	Tier 2	TRUE	TRUE	TRUE
VACA DIXON 110175740	VACA DIXON 1101	0.129192352		Solano	Tier 2	FALSE	TRUE	TRUE
VACA DIXON 1101CB	VACA DIXON 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 1102CB	VACA DIXON 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 110339500	VACA DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 110340832	VACA DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 11035187	VACA DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 110355570	VACA DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 11035602	VACA DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 110365434	VACA DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 11036822	VACA DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 110376158	VACA DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 1103CB	VACA DIXON 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 1104607900	VACA DIXON 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 1104CB	VACA DIXON 1104	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 110531546	VACA DIXON 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 1105965390	VACA DIXON 1105	0.552235658		Solano	Tier 2	FALSE	TRUE	TRUE
VACA DIXON 11059792	VACA DIXON 1105	0.84657926		Solano	Tier 2	TRUE	TRUE	TRUE
VACA DIXON 1105CB	VACA DIXON 1105	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
VACA DIXON 11065752	VACA DIXON 1106	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 1106CB	VACA DIXON 1106	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 110965548	VACA DIXON 1109	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACA DIXON 1109CB	VACA DIXON 1109	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 1102CB	VACAVILLE 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 1103CB	VACAVILLE 1103	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 1104196294	VACAVILLE 1104	0.480421111		Solano	Tier 2	FALSE	TRUE	TRUE
VACAVILLE 1104293462	VACAVILLE 1104	1.058496576		Solano	Tier 2	FALSE	TRUE	TRUE
VACAVILLE 11046542	VACAVILLE 1104	11.55075736		Solano	Tier 2	TRUE	TRUE	TRUE
VACAVILLE 1104CB	VACAVILLE 1104	0.438324846		Solano	Tier 2	FALSE	TRUE	TRUE
VACAVILLE 110541272	VACAVILLE 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 110569806	VACAVILLE 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 110582908	VACAVILLE 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 1105CB	VACAVILLE 1105	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 1106CB	VACAVILLE 1106	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 1107CB	VACAVILLE 1107	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 110838316	VACAVILLE 1108	15.19722678		Solano	Tier 2	TRUE	TRUE	TRUE
VACAVILLE 110847860	VACAVILLE 1108	0.289570793		Solano	Tier 2	FALSE	TRUE	TRUE
VACAVILLE 1108873678	VACAVILLE 1108	0.175949229		Solano	Tier 2	FALSE	TRUE	TRUE
VACAVILLE 11088762	VACAVILLE 1108	5.698274692		Solano	Tier 2	TRUE	TRUE	TRUE
VACAVILLE 1108922767	VACAVILLE 1108	8.342593584		Solano	Tier 2	TRUE	TRUE	TRUE
VACAVILLE 1108CB	VACAVILLE 1108	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
VACAVILLE 110941782	VACAVILLE 1109	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 1109592742	VACAVILLE 1109	0.296478033		Solano	Tier 2	FALSE	TRUE	TRUE
VACAVILLE 1109799940	VACAVILLE 1109	0.511381017		Solano	Tier 2	FALSE	TRUE	TRUE
VACAVILLE 110996966	VACAVILLE 1109	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 1109CB	VACAVILLE 1109	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 1110CB	VACAVILLE 1110	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 111112342	VACAVILLE 1111	0.01149742		Solano	Tier 2	FALSE	TRUE	TRUE
VACAVILLE 111113652	VACAVILLE 1111	4.799107158		Solano	Tier 2	TRUE	TRUE	FALSE
VACAVILLE 1111772224	VACAVILLE 1111	0.042027164		Solano	Tier 2	FALSE	TRUE	TRUE
VACAVILLE 1111905076	VACAVILLE 1111	0.156614536		Solano	Tier 2	FALSE	TRUE	TRUE
VACAVILLE 1111CB	VACAVILLE 1111	5.167470584		Solano	Tier 2	FALSE	TRUE	TRUE
VACAVILLE 1112239276	VACAVILLE 1112	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VACAVILLE 1112354578	VACAVILLE 1112	0.187876896		Solano	Tier 2	FALSE	TRUE	TRUE
VACAVILLE 1112CB	VACAVILLE 1112	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VALLEJO B 0411CB	VALLEJO B 0411	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VALLEJO B 0413CB	VALLEJO B 0413	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VALLEJO B 0414CB	VALLEJO B 0414	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
VALLEJO B 0415865600	VALLEJO B 0415	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
VALLEJO B 0415CB	VALLEJO B 0415	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VALLEJO B 11017410	VALLEJO B 1101	0		Solano	Non-HFTD	TRUE	TRUE	FALSE
VALLEJO B 110175246	VALLEJO B 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VALLEJO B 1101779	VALLEJO B 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VALLEJO B 1101CB	VALLEJO B 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VALLEJO B 1102CB	VALLEJO B 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VALLEJO C 0401CB	VALLEJO C 0401	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
VALLEY HOME 17023214	VALLEY HOME 1702	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
VALLEY HOME 170278842	VALLEY HOME 1702	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
VALLEY HOME 17029070	VALLEY HOME 1702	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
VALLEY HOME 1702CB	VALLEY HOME 1702	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
VALLEY HOME 17031532	VALLEY HOME 1703	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
VALLEY HOME 17031558	VALLEY HOME 1703	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VALLEY HOME 170339660	VALLEY HOME 1703	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
VALLEY HOME 170356266	VALLEY HOME 1703	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VALLEY HOME 1703768534	VALLEY HOME 1703	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
VALLEY HOME 1703CB	VALLEY HOME 1703	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VALLEY HOME 170413112	VALLEY HOME 1704	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VALLEY HOME 170436954	VALLEY HOME 1704	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VALLEY HOME 1704CB	VALLEY HOME 1704	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
Valley Springs 1101CB	Valley Springs 1101	0		Calaveras	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
VALLEY VIEW 1103218424	VALLEY VIEW 1103	0.458368118		Contra Costa	Tier 3	FALSE	TRUE	FALSE
VALLEY VIEW 1103CB	VALLEY VIEW 1103	0.129216222		Contra Costa	Tier 3	TRUE	TRUE	TRUE
VALLEY VIEW 1103P156	VALLEY VIEW 1103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
VALLEY VIEW 1103P158	VALLEY VIEW 1103	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
VALLEY VIEW 1103P160	VALLEY VIEW 1103	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
VALLEY VIEW 1105305072	VALLEY VIEW 1105	3.001164565		Contra Costa	Tier 2	FALSE	TRUE	TRUE
VALLEY VIEW 1105CB	VALLEY VIEW 1105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
VALLEY VIEW 1105P124	VALLEY VIEW 1105	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
VALLEY VIEW 1105P126	VALLEY VIEW 1105	0.980116621		Contra Costa	Tier 2	FALSE	TRUE	TRUE
VALLEY VIEW 1105P190	VALLEY VIEW 1105	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
VALLEY VIEW 1106496670	VALLEY VIEW 1106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
VALLEY VIEW 1106865650	VALLEY VIEW 1106	3.448001313		Contra Costa	Tier 2	FALSE	TRUE	TRUE
VALLEY VIEW 1106CB	VALLEY VIEW 1106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
VALLEY VIEW 1106P128	VALLEY VIEW 1106	0.058295199		Contra Costa	Tier 2	FALSE	TRUE	TRUE
VALLEY VIEW 1106P166	VALLEY VIEW 1106	4.241677522		Contra Costa	Tier 3	FALSE	TRUE	TRUE
VALLEY VIEW 1106P176	VALLEY VIEW 1106	1.001883772		Contra Costa	Tier 2	FALSE	TRUE	TRUE
VALLEY VIEW 1106P180	VALLEY VIEW 1106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
VALLEY VIEW 1106P182	VALLEY VIEW 1106	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
VASCO 1101CB	VASCO 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VASCO 1101MR290	VASCO 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VASCO 1101MR292	VASCO 1101	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VASCO 1102208712	VASCO 1102	1.10923697		Alameda	Tier 2	FALSE	TRUE	FALSE
VASCO 1102546328	VASCO 1102	38.09655974		Alameda	Tier 2	FALSE	TRUE	TRUE
VASCO 1102886522	VASCO 1102	6.440246404		Alameda	Tier 2	FALSE	TRUE	TRUE
VASCO 1102CB	VASCO 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VASCO 1102MR178	VASCO 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VASCO 1102MR418	VASCO 1102	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VASCO 1103964102	VASCO 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VASCO 1103CB	VASCO 1103	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VASONA 110160084	VASONA 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 1101CB	VASONA 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 1101LC56	VASONA 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 1101LC68	VASONA 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 1102173102	VASONA 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 1102944560	VASONA 1102	0.121485074		Santa Clara	Tier 2	FALSE	TRUE	FALSE
VASONA 1102CB	VASONA 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 110360072	VASONA 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 110360132	VASONA 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 1103CB	VASONA 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 1104CB	VASONA 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 110548314	VASONA 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 1105CB	VASONA 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 1105LC32	VASONA 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 1105LC88	VASONA 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 1108CB	VASONA 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VASONA 1108LC30	VASONA 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
VICTOR 110137012	VICTOR 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VICTOR 1101CB	VICTOR 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VICTOR 110223754	VICTOR 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VICTOR 110236800	VICTOR 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VICTOR 1102452726	VICTOR 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VICTOR 11026246	VICTOR 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VICTOR 110275234	VICTOR 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VICTOR 1102CB	VICTOR 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 22012064	VIEJO 2201	0.869853888		Monterey	Tier 2	FALSE	TRUE	FALSE
VIEJO 2201563516	VIEJO 2201	6.811864395		Monterey	Tier 2	FALSE	TRUE	FALSE
VIEJO 22019490	VIEJO 2201	1.175583027		Monterey	Tier 2	FALSE	TRUE	FALSE
VIEJO 22019698	VIEJO 2201	0.520687159		Monterey	Tier 2	FALSE	TRUE	FALSE
VIEJO 22019704	VIEJO 2201	0.353549682		Monterey	Tier 2	FALSE	TRUE	TRUE
VIEJO 2201CB	VIEJO 2201	4.878733037		Monterey	Tier 2	FALSE	TRUE	FALSE
VIEJO 22022014	VIEJO 2202	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 22022179	VIEJO 2202	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 22022606	VIEJO 2202	0.834492569		Monterey	Tier 2	FALSE	TRUE	FALSE
VIEJO 220235388	VIEJO 2202	0.318245032		Monterey	Tier 2	FALSE	TRUE	TRUE
VIEJO 220285904	VIEJO 2202	0.839690559		Monterey	Tier 2	FALSE	TRUE	TRUE
VIEJO 22029100	VIEJO 2202	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 22029104	VIEJO 2202	5.650672361		Monterey	Tier 2	FALSE	TRUE	FALSE
VIEJO 22029112	VIEJO 2202	0.776876062		Monterey	Tier 2	FALSE	TRUE	TRUE
VIEJO 22029118	VIEJO 2202	1.898792992		Monterey	Tier 2	FALSE	TRUE	FALSE
VIEJO 22029120	VIEJO 2202	1.708331654		Monterey	Tier 2	FALSE	TRUE	TRUE
VIEJO 220292792	VIEJO 2202	0.003814807		Monterey	Tier 2	FALSE	TRUE	TRUE
VIEJO 22029488	VIEJO 2202	0.550572686		Monterey	Tier 2	FALSE	TRUE	TRUE
VIEJO 220298146	VIEJO 2202	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 2202CB	VIEJO 2202	2.057329364		Monterey	Tier 2	FALSE	TRUE	FALSE
VIEJO 22032016	VIEJO 2203	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 22032628	VIEJO 2203	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 22032634	VIEJO 2203	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 22032636	VIEJO 2203	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 2203573610	VIEJO 2203	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 22039094	VIEJO 2203	0.000798448		Monterey	Tier 2	FALSE	TRUE	TRUE
VIEJO 220393964	VIEJO 2203	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 2203947314	VIEJO 2203	0.275422397		Monterey	Tier 2	FALSE	TRUE	TRUE
VIEJO 2203CB	VIEJO 2203	2.765963702		Monterey	Tier 2	FALSE	TRUE	TRUE
VIEJO 220436948	VIEJO 2204	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 2204385618	VIEJO 2204	0.232928187		Monterey	Tier 2	FALSE	TRUE	TRUE
VIEJO 2204481042	VIEJO 2204	0.547575921		Monterey	Tier 2	FALSE	TRUE	TRUE
VIEJO 2204746866	VIEJO 2204	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 220486890	VIEJO 2204	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 22049440	VIEJO 2204	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
VIEJO 22049540	VIEJO 2204	1.397753609		Monterey	Tier 2	FALSE	TRUE	FALSE
VIEJO 2204CB	VIEJO 2204	2.265921167		Monterey	Tier 2	FALSE	TRUE	FALSE
VIERRA 170111718	VIERRA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 170114306	VIERRA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 170138486	VIERRA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 170198454	VIERRA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 1701CB	VIERRA 1701	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 1702593096	VIERRA 1702	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 1702CB	VIERRA 1702	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 170313694	VIERRA 1703	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 1703744838	VIERRA 1703	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 1703CB	VIERRA 1703	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
VIERRA 170614268	VIERRA 1706	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 1706CB	VIERRA 1706	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 170734396	VIERRA 1707	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 17078988	VIERRA 1707	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 170795714	VIERRA 1707	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VIERRA 1707CB	VIERRA 1707	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
VINA 11011570	VINA 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
VINA 11011572	VINA 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
VINA 1101247612	VINA 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
VINA 11012681	VINA 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
VINA 110135730	VINA 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
VINA 110189142	VINA 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
VINA 110198144	VINA 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
VINA 1101CB	VINA 1101	0		Tehama	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2104CB	VINEYARD 2104	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2105855920	VINEYARD 2105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2105CB	VINEYARD 2105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2105MR270	VINEYARD 2105	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2106CB	VINEYARD 2106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2106MR168	VINEYARD 2106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2106MR274	VINEYARD 2106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2106MR519	VINEYARD 2106	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2107246084	VINEYARD 2107	0.02895941		Alameda	Tier 2	FALSE	TRUE	TRUE
VINEYARD 2107978364	VINEYARD 2107	0.873185092		Alameda	Tier 2	FALSE	TRUE	TRUE
VINEYARD 2107CB	VINEYARD 2107	1.862406027		Alameda	Tier 2	FALSE	TRUE	TRUE
VINEYARD 2107MR332	VINEYARD 2107	0.234772953		Alameda	Tier 2	FALSE	TRUE	TRUE
VINEYARD 2107MR649	VINEYARD 2107	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2108609690	VINEYARD 2108	4.559016596		Alameda	Tier 3	FALSE	TRUE	TRUE
VINEYARD 2108CB	VINEYARD 2108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2108MR172	VINEYARD 2108	0.607071816		Alameda	Tier 3	FALSE	TRUE	TRUE
VINEYARD 2108MR696	VINEYARD 2108	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2109CB	VINEYARD 2109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2109MR170	VINEYARD 2109	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2110946322	VINEYARD 2110	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
VINEYARD 2110CB	VINEYARD 2110	5.912671207		Alameda	Tier 2	FALSE	TRUE	TRUE
VIRGINIA 0401BR312	VIRGINIA 0401	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
VIRGINIA 0401CB	VIRGINIA 0401	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
VOLTA 11011516	VOLTA 1101	24.51642162		Tehama	Tier 2	TRUE	TRUE	TRUE
VOLTA 11011596	VOLTA 1101	20.22188598		Tehama	Tier 2	TRUE	TRUE	TRUE
VOLTA 11011640	VOLTA 1101	11.62899546		Tehama	Tier 2	TRUE	TRUE	FALSE
VOLTA 1101239094	VOLTA 1101	22.15162886		Shasta	Tier 3	FALSE	TRUE	FALSE
VOLTA 110149742	VOLTA 1101	3.477299336		Tehama	Tier 2	FALSE	TRUE	TRUE
VOLTA 110153118	VOLTA 1101	8.848110674		Tehama	Tier 2	FALSE	TRUE	TRUE
VOLTA 110165764	VOLTA 1101	10.29509914		Tehama	Tier 2	TRUE	TRUE	TRUE
VOLTA 110167672	VOLTA 1101	1.502738409		Tehama	Tier 2	FALSE	TRUE	TRUE
VOLTA 110185234	VOLTA 1101	6.928276102		Tehama	Tier 2	FALSE	TRUE	TRUE
VOLTA 1101914816	VOLTA 1101	30.73367185		Shasta	Tier 2	FALSE	TRUE	TRUE
VOLTA 1101CB	VOLTA 1101	7.072286501		Shasta	Tier 3	FALSE	TRUE	TRUE
VOLTA 11021502	VOLTA 1102	7.287682472		Shasta	Tier 3	FALSE	TRUE	TRUE
VOLTA 11021504	VOLTA 1102	8.319850941		Shasta	Tier 3	FALSE	TRUE	TRUE
VOLTA 11021646	VOLTA 1102	23.25772206		Shasta	Tier 3	FALSE	TRUE	TRUE
VOLTA 11021650	VOLTA 1102	21.68031901		Shasta	Tier 2	FALSE	TRUE	FALSE
VOLTA 1102281296	VOLTA 1102	0.676719443		Shasta	Tier 3	FALSE	TRUE	FALSE
VOLTA 110237350	VOLTA 1102	24.20944412		Shasta	Tier 3	FALSE	TRUE	TRUE
VOLTA 1102453266	VOLTA 1102	0.332995089		Shasta	Tier 3	FALSE	TRUE	FALSE
VOLTA 110253130	VOLTA 1102	13.16970133		Shasta	Tier 3	FALSE	TRUE	TRUE
VOLTA 110254932	VOLTA 1102	4.384261383		Shasta	Tier 3	FALSE	TRUE	FALSE
VOLTA 1102641544	VOLTA 1102	4.851264457		Shasta	Tier 3	FALSE	TRUE	TRUE
VOLTA 110280982	VOLTA 1102	0.509146098		Shasta	Tier 3	FALSE	TRUE	TRUE
VOLTA 110293418	VOLTA 1102	2.557435328		Shasta	Tier 3	FALSE	TRUE	TRUE
VOLTA 11029742	VOLTA 1102	8.973252041		Shasta	Tier 3	FALSE	TRUE	FALSE
VOLTA 110297816	VOLTA 1102	5.248831612		Shasta	Tier 3	FALSE	TRUE	FALSE
WAHTOKE 1106722374	WAHTOKE 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1106759318	WAHTOKE 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1106CB	WAHTOKE 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1107788302	WAHTOKE 1107	0		Tulare	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1107CB	WAHTOKE 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1108673298	WAHTOKE 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 11087160	WAHTOKE 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 11087180	WAHTOKE 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 11087460	WAHTOKE 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 11087500	WAHTOKE 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 11087570	WAHTOKE 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1108CB	WAHTOKE 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 11093010	WAHTOKE 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1109479598	WAHTOKE 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1109CB	WAHTOKE 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1110129724	WAHTOKE 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 111033004	WAHTOKE 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 111049396	WAHTOKE 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1110998116	WAHTOKE 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1110CB	WAHTOKE 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1111267760	WAHTOKE 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1111593318	WAHTOKE 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 111169760	WAHTOKE 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1111CB	WAHTOKE 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WAHTOKE 1111CUS4140	WAHTOKE 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WALDO 0401965216	WALDO 0401	1.60016866		Contra Costa	Tier 2	FALSE	TRUE	TRUE
WALDO 0401CB	WALDO 0401	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
WALDO 0402130940	WALDO 0402	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
WALDO 0402258792	WALDO 0402	2.965088791		Contra Costa	Tier 2	FALSE	TRUE	TRUE
WALDO 0402CB	WALDO 0402	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
WALL 0401CB	WALL 0401	0		Contra Costa	Non-HFTD	TRUE	TRUE	FALSE
WALNUT CREEK 0403CB	WALNUT CREEK 0403	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
WALNUT CREEK 0404CB	WALNUT CREEK 0404	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
WARD 0401CB	WARD 0401	0		Alameda	Non-HFTD	FALSE	FALSE	FALSE
WASCO 11011294	WASCO 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WASCO 1101CB	WASCO 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WASCO 1102223060	WASCO 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WASCO 1102CB	WASCO 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WASCO 11041269	WASCO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
WASCO 11042699	WASCO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WASCO 1104CB	WASCO 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WATERLOO 110112968	WATERLOO 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WATERLOO 110112970	WATERLOO 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WATERLOO 11011375	WATERLOO 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WATERLOO 11014437	WATERLOO 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WATERLOO 1101CB	WATERLOO 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WATERLOO 110214592	WATERLOO 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WATERLOO 11022964	WATERLOO 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WATERLOO 1102CB	WATERLOO 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WATERSHED 0402CB	WATERSHED 0402	0.435857757		San Mateo	Tier 3	FALSE	TRUE	FALSE
WATSONVILLE 0411CB	WATSONVILLE 0411	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
WATSONVILLE 0413CB	WATSONVILLE 0413	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
WATSONVILLE 0414CB	WATSONVILLE 0414	0		Santa Cruz	Non-HFTD	FALSE	FALSE	FALSE
WATSONVILLE 210110788	WATSONVILLE 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
WATSONVILLE 210110952	WATSONVILLE 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
WATSONVILLE 210112662	WATSONVILLE 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
WATSONVILLE 210142086	WATSONVILLE 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
WATSONVILLE 21015306	WATSONVILLE 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
WATSONVILLE 21015470	WATSONVILLE 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
WATSONVILLE 2101905574	WATSONVILLE 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
WATSONVILLE 2101CB	WATSONVILLE 2101	0		Monterey	Non-HFTD	FALSE	FALSE	FALSE
WEBER 110170700	WEBER 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 110191832	WEBER 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1101CB	WEBER 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 11022324	WEBER 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 110238326	WEBER 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 110288470	WEBER 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 11029448	WEBER 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1102CB	WEBER 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1103CB	WEBER 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1105705456	WEBER 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 11059148	WEBER 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1105CB	WEBER 1105	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1107CB	WEBER 1107	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1108CB	WEBER 1108	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 110914062	WEBER 1109	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 11092142	WEBER 1109	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 11094920	WEBER 1109	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 11099316	WEBER 1109	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1109CB	WEBER 1109	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 111079480	WEBER 1110	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1110CB	WEBER 1110	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 111113724	WEBER 1111	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1111173750	WEBER 1111	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1111778020	WEBER 1111	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1111CB	WEBER 1111	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1112CB	WEBER 1112	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1113CB	WEBER 1113	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1114832888	WEBER 1114	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1114CB	WEBER 1114	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 111514576	WEBER 1115	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1115559420	WEBER 1115	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEBER 1115CB	WEBER 1115	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 11012405	WEEDPATCH 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 11014574	WEEDPATCH 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 1101CB	WEEDPATCH 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 110217701	WEEDPATCH 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 11024106	WEEDPATCH 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 1102CB	WEEDPATCH 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 110315942	WEEDPATCH 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 110315958	WEEDPATCH 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 11031668	WEEDPATCH 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 11031670	WEEDPATCH 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 11031672	WEEDPATCH 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 1103CB	WEEDPATCH 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 1105CB	WEEDPATCH 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 110613390	WEEDPATCH 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 1106205044	WEEDPATCH 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 11064171	WEEDPATCH 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 110668866	WEEDPATCH 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEEDPATCH 1106CB	WEEDPATCH 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEIMAR 11012058	WEIMAR 1101	28.17005589		Placer	Tier 2	FALSE	TRUE	TRUE
WEIMAR 11012084	WEIMAR 1101	18.57752766		Placer	Tier 2	FALSE	TRUE	TRUE
WEIMAR 11012740	WEIMAR 1101	15.75930941		Placer	Tier 2	FALSE	TRUE	TRUE
WEIMAR 11012764	WEIMAR 1101	6.220247292		Placer	Tier 2	FALSE	TRUE	TRUE
WEIMAR 1101963878	WEIMAR 1101	0.763744558		Placer	Tier 2	FALSE	TRUE	FALSE
WEIMAR 1101CB	WEIMAR 1101	9.229776824		Placer	Tier 2	FALSE	TRUE	TRUE
WEIMAR 11022038	WEIMAR 1102	21.67416755		Placer	Tier 2	FALSE	TRUE	TRUE
WEIMAR 1102CB	WEIMAR 1102	14.9278996		Placer	Tier 2	FALSE	TRUE	TRUE
WELLFIELD 11022842	WELLFIELD 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WELLFIELD 1102CB	WELLFIELD 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WELLFIELD 1103CB	WELLFIELD 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WELLFIELD 1104CB	WELLFIELD 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 110149622	WEST FRESNO 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1101CB	WEST FRESNO 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1101R1766	WEST FRESNO 1101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1102829424	WEST FRESNO 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1102CB	WEST FRESNO 1102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1103CB	WEST FRESNO 1103	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 110423640	WEST FRESNO 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 110460801	WEST FRESNO 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 110470610	WEST FRESNO 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 110493599	WEST FRESNO 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1104CB	WEST FRESNO 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1104D3042	WEST FRESNO 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1104D9804	WEST FRESNO 1104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 110558860	WEST FRESNO 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1105CB	WEST FRESNO 1105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 110655414	WEST FRESNO 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1106CB	WEST FRESNO 1106	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
WEST FRESNO 110749176	WEST FRESNO 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1107CB	WEST FRESNO 1107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 110875144	WEST FRESNO 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1108CB	WEST FRESNO 1108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 110923744	WEST FRESNO 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 110936256	WEST FRESNO 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 11099422	WEST FRESNO 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1109CB	WEST FRESNO 1109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1110CB	WEST FRESNO 1110	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 111172322	WEST FRESNO 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 111179367	WEST FRESNO 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 111183387	WEST FRESNO 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1111CB	WEST FRESNO 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1111D2812	WEST FRESNO 1111	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1112448248	WEST FRESNO 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1112749610	WEST FRESNO 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1112CB	WEST FRESNO 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST FRESNO 1112R4693	WEST FRESNO 1112	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WEST LANE 110161986	WEST LANE 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEST LANE 110195948	WEST LANE 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEST LANE 110199872	WEST LANE 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEST LANE 1101CB	WEST LANE 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEST LANE 110214604	WEST LANE 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEST LANE 11028457	WEST LANE 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEST LANE 1102CB	WEST LANE 1102	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEST LANE 110310382	WEST LANE 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEST LANE 1103CB	WEST LANE 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEST LANE 1103D1057	WEST LANE 1103	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WEST POINT 110112256	WEST POINT 1101	6.539076789		Amador	Tier 3	FALSE	TRUE	TRUE
WEST POINT 110113444	WEST POINT 1101	27.76007885		Amador	Tier 3	FALSE	TRUE	TRUE
WEST POINT 110136674	WEST POINT 1101	11.71494251		Amador	Tier 3	FALSE	TRUE	TRUE
WEST POINT 11014706	WEST POINT 1101	11.585998		Amador	Tier 3	FALSE	TRUE	TRUE
WEST POINT 1101CB	WEST POINT 1101	4.804493159		Amador	Tier 3	FALSE	TRUE	TRUE
WEST POINT 1101L1969	WEST POINT 1101	1.099154797		Amador	Tier 3	FALSE	TRUE	TRUE
WEST POINT 11021305	WEST POINT 1102	11.31507513		Calaveras	Tier 3	FALSE	TRUE	TRUE
WEST POINT 11021341	WEST POINT 1102	9.790174847		Calaveras	Tier 3	FALSE	TRUE	TRUE
WEST POINT 110234416	WEST POINT 1102	25.75369521		Calaveras	Tier 3	FALSE	TRUE	TRUE
WEST POINT 110236676	WEST POINT 1102	16.64137727		Calaveras	Tier 3	FALSE	TRUE	TRUE
WEST POINT 11024788	WEST POINT 1102	71.97879191		Calaveras	Tier 3	TRUE	TRUE	TRUE
WEST POINT 11024790	WEST POINT 1102	32.40345611		Calaveras	Tier 3	FALSE	TRUE	TRUE
WEST POINT 110272036	WEST POINT 1102	12.65001514		Calaveras	Tier 3	FALSE	TRUE	TRUE
WEST POINT 110277204	WEST POINT 1102	7.447044698		Calaveras	Tier 3	FALSE	TRUE	TRUE
WEST POINT 110293116	WEST POINT 1102	41.75756358		Calaveras	Tier 3	FALSE	TRUE	TRUE
WEST POINT 1102CB	WEST POINT 1102	22.312369		Calaveras	Tier 3	TRUE	TRUE	TRUE
WEST SACRAMENTO 11048422	WEST SACRAMENTO 1104	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 1104CB	WEST SACRAMENTO 1104	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 1105CB	WEST SACRAMENTO 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 1106CB	WEST SACRAMENTO 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 1107CB	WEST SACRAMENTO 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 110820222	WEST SACRAMENTO 1108	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 1108599922	WEST SACRAMENTO 1108	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 1108CB	WEST SACRAMENTO 1108	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 110920032	WEST SACRAMENTO 1109	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 1109743964	WEST SACRAMENTO 1109	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 1109CB	WEST SACRAMENTO 1109	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 111022412	WEST SACRAMENTO 1110	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 111022422	WEST SACRAMENTO 1110	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 1110CB	WEST SACRAMENTO 1110	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WEST SACRAMENTO 1111CB	WEST SACRAMENTO 1111	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WESTLAKE 0401CB	WESTLAKE 0401	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
WESTLAKE 0403CB	WESTLAKE 0403	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
WESTLEY 110111730	WESTLEY 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WESTLEY 110111734	WESTLEY 1101	0		San Joaquin	Non-HFTD	FALSE	FALSE	FALSE
WESTLEY 110111736	WESTLEY 1101	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
WESTLEY 1101463982	WESTLEY 1101	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
WESTLEY 11018660	WESTLEY 1101	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
WESTLEY 1101CB	WESTLEY 1101	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
WESTLEY 1102CB	WESTLEY 1102	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
WESTLEY 1103237522	WESTLEY 1103	11.0895831		Stanislaus	Tier 2	FALSE	TRUE	TRUE
WESTLEY 1103434305	WESTLEY 1103	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
WESTLEY 11037150	WESTLEY 1103	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
WESTLEY 11038640	WESTLEY 1103	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
WESTLEY 11039010	WESTLEY 1103	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
WESTLEY 11039900	WESTLEY 1103	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
WESTLEY 1103CB	WESTLEY 1103	0		Stanislaus	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 110115325	WESTPARK 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 11014897	WESTPARK 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1101CB	WESTPARK 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1102CB	WESTPARK 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 110314893	WESTPARK 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 11033768	WESTPARK 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1103397328	WESTPARK 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1103CB	WESTPARK 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 11041514	WESTPARK 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1104CB	WESTPARK 1104	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1105CB	WESTPARK 1105	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1106CB	WESTPARK 1106	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 11074090	WESTPARK 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1107CB	WESTPARK 1107	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1108215560	WESTPARK 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1108411546	WESTPARK 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 110849640	WESTPARK 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 110857726	WESTPARK 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1108724226	WESTPARK 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 110874556	WESTPARK 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1108885578	WESTPARK 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1108CB	WESTPARK 1108	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 11091508	WESTPARK 1109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 11091558	WESTPARK 1109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1109689790	WESTPARK 1109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1109CB	WESTPARK 1109	0		Kern	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
WESTPARK 11104871	WESTPARK 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1110CB	WESTPARK 1110	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1111CB	WESTPARK 1111	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WESTPARK 1112CB	WESTPARK 1112	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHEATLAND 1101CB	WHEATLAND 1101	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
WHEATLAND 11021368	WHEATLAND 1102	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
WHEATLAND 11021370	WHEATLAND 1102	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
WHEATLAND 11027378	WHEATLAND 1102	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
WHEATLAND 1102CB	WHEATLAND 1102	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
WHEATLAND 11041348	WHEATLAND 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
WHEATLAND 11042218	WHEATLAND 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
WHEATLAND 11042220	WHEATLAND 1104	0		Sutter	Non-HFTD	TRUE	TRUE	FALSE
WHEATLAND 11042700	WHEATLAND 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
WHEATLAND 110436326	WHEATLAND 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
WHEATLAND 1104CB	WHEATLAND 1104	0		Placer	Non-HFTD	FALSE	FALSE	FALSE
WHEATLAND 11051344	WHEATLAND 1105	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
WHEATLAND 1105248490	WHEATLAND 1105	10.6472252		Yuba	Tier 2	FALSE	TRUE	TRUE
WHEATLAND 110591170	WHEATLAND 1105	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
WHEATLAND 1105CB	WHEATLAND 1105	0		Yuba	Non-HFTD	FALSE	FALSE	FALSE
WHEELER RIDGE 1101234580	WHEELER RIDGE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHEELER RIDGE 11012878	WHEELER RIDGE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHEELER RIDGE 110137662	WHEELER RIDGE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHEELER RIDGE 11014164	WHEELER RIDGE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHEELER RIDGE 110170228	WHEELER RIDGE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHEELER RIDGE 110183646	WHEELER RIDGE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHEELER RIDGE 110190844	WHEELER RIDGE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHEELER RIDGE 1101CB	WHEELER RIDGE 1101	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHEELER RIDGE 11024104	WHEELER RIDGE 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHEELER RIDGE 1102CB	WHEELER RIDGE 1102	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHEELER RIDGE 11031609	WHEELER RIDGE 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHEELER RIDGE 11032846	WHEELER RIDGE 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHEELER RIDGE 1103CB	WHEELER RIDGE 1103	0		Kern	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 1101CB	WHISMAN 1101	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 1102CB	WHISMAN 1102	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 110331472	WHISMAN 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 1103CB	WHISMAN 1103	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 1104CB	WHISMAN 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 1105CB	WHISMAN 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 110660000	WHISMAN 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 1106CB	WHISMAN 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 1107CB	WHISMAN 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 110834748	WHISMAN 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 110860014	WHISMAN 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 1108CB	WHISMAN 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 1108LM34	WHISMAN 1108	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 1110CB	WHISMAN 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHISMAN 1111CB	WHISMAN 1111	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WHITMORE 11011594	WHITMORE 1101	8.549750241		Shasta	Tier 2	FALSE	TRUE	TRUE
WHITMORE 11011598	WHITMORE 1101	13.36466065		Shasta	Tier 3	FALSE	TRUE	TRUE
WHITMORE 110145262	WHITMORE 1101	28.14596296		Shasta	Tier 2	FALSE	TRUE	FALSE
WHITMORE 1101589578	WHITMORE 1101	19.78610149		Shasta	Tier 3	FALSE	TRUE	TRUE
WHITMORE 1101903576	WHITMORE 1101	15.43377273		Shasta	Tier 3	FALSE	TRUE	TRUE
WHITMORE 1101CB	WHITMORE 1101	5.834829164		Shasta	Tier 2	FALSE	TRUE	TRUE
WHITMORE 1101WTGLR	WHITMORE 1101	0.002947134		Shasta	Tier 2	FALSE	TRUE	TRUE
WHITNEY 0402CB	WHITNEY 0402	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
WILDWOOD 11011454	WILDWOOD 1101	7.777156983		Tehama	Tier 2	FALSE	TRUE	TRUE
WILDWOOD 11011576	WILDWOOD 1101	8.062024372		Shasta	Tier 2	FALSE	TRUE	TRUE
WILDWOOD 1101384582	WILDWOOD 1101	4.538713469		Shasta	Tier 2	FALSE	TRUE	TRUE
WILDWOOD 110185112	WILDWOOD 1101	6.790657674		Trinity	Tier 2	FALSE	TRUE	TRUE
WILDWOOD 110198896	WILDWOOD 1101	5.027219177		Shasta	Tier 2	FALSE	TRUE	TRUE
WILDWOOD 1101CB	WILDWOOD 1101	0.124809697		Trinity	Tier 2	FALSE	TRUE	TRUE
WILKINS SLOUGH 11011704	WILKINS SLOUGH 1101	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
WILKINS SLOUGH 110118262	WILKINS SLOUGH 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILKINS SLOUGH 1101CB	WILKINS SLOUGH 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILKINS SLOUGH 11023066	WILKINS SLOUGH 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILKINS SLOUGH 110237254	WILKINS SLOUGH 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
WILKINS SLOUGH 11026272	WILKINS SLOUGH 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
WILKINS SLOUGH 110276620	WILKINS SLOUGH 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
WILKINS SLOUGH 1102799542	WILKINS SLOUGH 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILKINS SLOUGH 11029402	WILKINS SLOUGH 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
WILKINS SLOUGH 110298742	WILKINS SLOUGH 1102	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
WILKINS SLOUGH 1102CB	WILKINS SLOUGH 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILKINS SLOUGH 11036592	WILKINS SLOUGH 1103	0		Sutter	Non-HFTD	FALSE	FALSE	FALSE
WILKINS SLOUGH 1103CB	WILKINS SLOUGH 1103	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 11013040	WILLIAMS 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 11013042	WILLIAMS 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 110130534	WILLIAMS 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 110130592	WILLIAMS 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 1101CB	WILLIAMS 1101	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 110230222	WILLIAMS 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 110230232	WILLIAMS 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 110230242	WILLIAMS 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 110230332	WILLIAMS 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 11024104	WILLIAMS 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 110241772	WILLIAMS 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 110249008	WILLIAMS 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 1102492050	WILLIAMS 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 110275412	WILLIAMS 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLIAMS 1102CB	WILLIAMS 1102	0		Colusa	Non-HFTD	FALSE	FALSE	FALSE
WILLITS 11021270	WILLITS 1102	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
WILLITS 1102350324	WILLITS 1102	3.328902602		Mendocino	Tier 2	FALSE	TRUE	TRUE
WILLITS 1102CB	WILLITS 1102	1.459820872		Mendocino	Tier 2	FALSE	TRUE	TRUE
WILLITS 1102CUS8736	WILLITS 1102	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
WILLITS 11032506	WILLITS 1103	12.14130066		Mendocino	Tier 3	TRUE	TRUE	TRUE
WILLITS 110337504	WILLITS 1103	1.053271391		Mendocino	Tier 2	FALSE	TRUE	TRUE
WILLITS 110337506	WILLITS 1103	11.20764106		Mendocino	Tier 2	FALSE	TRUE	FALSE
WILLITS 1103409216	WILLITS 1103	19.83990887		Mendocino	Tier 3	FALSE	TRUE	FALSE
WILLITS 1103538	WILLITS 1103	6.323188438		Mendocino	Tier 3	FALSE	TRUE	TRUE
WILLITS 1103564506	WILLITS 1103	30.06156221		Mendocino	Tier 3	FALSE	TRUE	FALSE
WILLITS 1103696	WILLITS 1103	4.641858645		Mendocino	Tier 2	FALSE	TRUE	TRUE
WILLITS 1103826	WILLITS 1103	7.566382581		Mendocino	Tier 3	FALSE	TRUE	TRUE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
WILLITS 110391810	WILLITS 1103	29.2768335		Mendocino	Tier 3	FALSE	TRUE	TRUE
WILLITS 110391948	WILLITS 1103	6.602112618		Mendocino	Tier 3	FALSE	TRUE	FALSE
WILLITS 1103964	WILLITS 1103	2.676652182		Mendocino	Tier 2	FALSE	TRUE	FALSE
WILLITS 1103966	WILLITS 1103	0.862509433		Mendocino	Tier 2	FALSE	TRUE	TRUE
WILLITS 1103968	WILLITS 1103	6.569243901		Mendocino	Tier 2	FALSE	TRUE	TRUE
WILLITS 1103CB	WILLITS 1103	2.615334682		Mendocino	Tier 2	FALSE	TRUE	TRUE
WILLITS 1104188268	WILLITS 1104	4.154180495		Mendocino	Tier 2	FALSE	TRUE	TRUE
WILLITS 1104329646	WILLITS 1104	0		Mendocino	Non-HFTD	FALSE	FALSE	FALSE
WILLITS 110434008	WILLITS 1104	10.48160623		Mendocino	Tier 3	FALSE	TRUE	TRUE
WILLITS 1104341020	WILLITS 1104	31.03315185		Mendocino	Tier 3	FALSE	TRUE	TRUE
WILLITS 11044650	WILLITS 1104	3.595857487		Mendocino	Tier 2	FALSE	TRUE	TRUE
WILLITS 1104504	WILLITS 1104	22.75268591		Mendocino	Tier 3	FALSE	TRUE	TRUE
WILLITS 1104627552	WILLITS 1104	9.451605774		Mendocino	Tier 3	FALSE	TRUE	TRUE
WILLITS 1104936096	WILLITS 1104	3.070511764		Mendocino	Tier 3	FALSE	TRUE	FALSE
WILLITS 1104CB	WILLITS 1104	2.899741697		Mendocino	Tier 2	FALSE	TRUE	TRUE
WILLOW CREEK 110129362	WILLOW CREEK 1101	6.992350618		Humboldt	Tier 3	FALSE	TRUE	FALSE
WILLOW CREEK 11013050	WILLOW CREEK 1101	2.624384744		Humboldt	Tier 3	FALSE	TRUE	TRUE
WILLOW CREEK 11014904	WILLOW CREEK 1101	11.26160441		Humboldt	Tier 3	FALSE	TRUE	TRUE
WILLOW CREEK 11015002	WILLOW CREEK 1101	13.33958297		Humboldt	Tier 3	FALSE	TRUE	TRUE
WILLOW CREEK 1101729000	WILLOW CREEK 1101	6.839403865		Humboldt	Tier 3	FALSE	TRUE	TRUE
WILLOW CREEK 110191926	WILLOW CREEK 1101	4.812518124		Humboldt	Tier 3	FALSE	TRUE	FALSE
WILLOW CREEK 1101CB	WILLOW CREEK 1101	0.2879135		Humboldt	Tier 3	FALSE	TRUE	TRUE
WILLOW CREEK 110237374	WILLOW CREEK 1102	2.247344901		Humboldt	Tier 3	FALSE	TRUE	FALSE
WILLOW CREEK 1102CB	WILLOW CREEK 1102	7.329011283		Humboldt	Tier 3	FALSE	TRUE	FALSE
WILLOW CREEK 1103181562	WILLOW CREEK 1103	0.002840913		Humboldt	Tier 3	FALSE	TRUE	TRUE
WILLOW CREEK 1103205028	WILLOW CREEK 1103	1.533052262		Humboldt	Tier 2	FALSE	TRUE	TRUE
WILLOW CREEK 11032936	WILLOW CREEK 1103	23.43847217		Trinity	Tier 2	TRUE	TRUE	TRUE
WILLOW CREEK 11033090	WILLOW CREEK 1103	10.7387012		Trinity	Tier 2	FALSE	TRUE	TRUE
WILLOW CREEK 110347966	WILLOW CREEK 1103	17.11638489		Trinity	Tier 2	TRUE	TRUE	TRUE
WILLOW CREEK 11035012	WILLOW CREEK 1103	10.97814815		Trinity	Tier 2	FALSE	TRUE	TRUE
WILLOW CREEK 11037514	WILLOW CREEK 1103	9.060855072		Humboldt	Tier 2	TRUE	TRUE	TRUE
WILLOW CREEK 1103CB	WILLOW CREEK 1103	2.397487296		Humboldt	Tier 3	FALSE	TRUE	TRUE
WILLOW PASS 1101152874	WILLOW PASS 1101	0.437927571		Contra Costa	Tier 2	FALSE	TRUE	TRUE
WILLOW PASS 1101CB	WILLOW PASS 1101	0.685694585		Contra Costa	Tier 2	FALSE	TRUE	TRUE
WILLOW PASS 1102CB	WILLOW PASS 1102	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
WILLOW PASS 210721135	WILLOW PASS 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
WILLOW PASS 2107273996	WILLOW PASS 2107	0.6594558		Contra Costa	Tier 2	FALSE	TRUE	TRUE
WILLOW PASS 2107537100	WILLOW PASS 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
WILLOW PASS 2107CB	WILLOW PASS 2107	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
WILLOW PASS 210879972	WILLOW PASS 2108	0		Contra Costa	Non-HFTD	FALSE	FALSE	FALSE
WILLOW PASS 2108CB	WILLOW PASS 2108	0.232705629		Contra Costa	Tier 2	FALSE	TRUE	TRUE
WILLOWS A 1101CB	WILLOWS A 1101	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
WILLOWS A 11032262	WILLOWS A 1103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
WILLOWS A 1103CB	WILLOWS A 1103	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
WILLOWS A 1104CB	WILLOWS A 1104	0		Glenn	Non-HFTD	FALSE	FALSE	FALSE
WILSON 110111120	WILSON 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 110173322	WILSON 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 1101CB	WILSON 1101	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 1102332156	WILSON 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 110290190	WILSON 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 1102CB	WILSON 1102	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 110310690	WILSON 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 110310700	WILSON 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 11034140	WILSON 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 11034420	WILSON 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 110347636	WILSON 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 110348236	WILSON 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 1103873156	WILSON 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 11039080	WILSON 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WILSON 1103CB	WILSON 1103	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WINDSOR 1101158	WINDSOR 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
WINDSOR 1101586	WINDSOR 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
WINDSOR 1101CB	WINDSOR 1101	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
WINDSOR 1102382	WINDSOR 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
WINDSOR 11025066	WINDSOR 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
WINDSOR 1102596	WINDSOR 1102	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
WINDSOR 1102CB	WINDSOR 1102	0		Sonoma	Non-HFTD	TRUE	TRUE	FALSE
WINDSOR 1103171410	WINDSOR 1103	1.136553599		Sonoma	Tier 2	TRUE	TRUE	FALSE
WINDSOR 11035060	WINDSOR 1103	0.119404143		Sonoma	Tier 2	FALSE	TRUE	TRUE
WINDSOR 1103701650	WINDSOR 1103	0.725220735		Sonoma	Tier 2	TRUE	TRUE	FALSE
WINDSOR 1103CB	WINDSOR 1103	0		Sonoma	Non-HFTD	FALSE	FALSE	FALSE
WINTERS 110115822	WINTERS 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WINTERS 110121302	WINTERS 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WINTERS 110187886	WINTERS 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WINTERS 1101CB	WINTERS 1101	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
WINTERS 110223202	WINTERS 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
WINTERS 110248002	WINTERS 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
WINTERS 1102CB	WINTERS 1102	0		Solano	Non-HFTD	FALSE	FALSE	FALSE
WISE 11011404	WISE 1101	1.184320623		Placer	Tier 2	FALSE	TRUE	TRUE
WISE 110163199	WISE 1101	0.558126113		Placer	Tier 2	FALSE	TRUE	TRUE
WISE 1101CB	WISE 1101	4.043690616		Placer	Tier 2	FALSE	TRUE	TRUE
WISE 11022054	WISE 1102	12.87457269		Placer	Tier 2	FALSE	TRUE	FALSE
WISE 11022230	WISE 1102	23.51218821		Placer	Tier 2	FALSE	TRUE	TRUE
WISE 11022234	WISE 1102	15.22965033		Placer	Tier 2	FALSE	TRUE	FALSE
WISE 1102307494	WISE 1102	30.70626475		Placer	Tier 2	FALSE	TRUE	FALSE
WISE 1102449556	WISE 1102	4.030917491		Placer	Tier 2	FALSE	TRUE	FALSE
WISE 1102465074	WISE 1102	4.752096632		Placer	Tier 2	FALSE	TRUE	FALSE
WISE 1102697216	WISE 1102	13.32744754		Placer	Tier 2	FALSE	TRUE	FALSE
WISE 1102CB	WISE 1102	9.968280932		Placer	Tier 2	FALSE	TRUE	TRUE
WISHON 1101514298	WISHON 1101	7.558273856		Madera	Tier 3	FALSE	TRUE	TRUE
WISHON 1101CB	WISHON 1101	0.034572905		Madera	Tier 3	FALSE	TRUE	TRUE
WOLFE 1104CB	WOLFE 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WOLFE 1104LC28	WOLFE 1104	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WOLFE 1105CB	WOLFE 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WOLFE 1105LC34	WOLFE 1105	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WOLFE 1106CB	WOLFE 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WOLFE 1106LV18	WOLFE 1106	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WOLFE 1107CB	WOLFE 1107	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WOLFE 1109CB	WOLFE 1109	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WOLFE 1110CB	WOLFE 1110	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WOLFE 1113CB	WOLFE 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE

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circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
WOLFE 1113LV20	WOLFE 1113	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WOLFE 111435446	WOLFE 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WOLFE 1114CB	WOLFE 1114	0		Santa Clara	Non-HFTD	FALSE	FALSE	FALSE
WOOD 0401CB	WOOD 0401	0.228417144		Alameda	Tier 2	FALSE	TRUE	TRUE
WOODACRE 11011456	WOODACRE 1101	3.823725966		Marin	Tier 3	FALSE	TRUE	TRUE
WOODACRE 1101404	WOODACRE 1101	12.4121413		Marin	Tier 3	FALSE	TRUE	TRUE
WOODACRE 110191900	WOODACRE 1101	6.220315269		Marin	Tier 3	FALSE	TRUE	TRUE
WOODACRE 110196844	WOODACRE 1101	5.709043901		Marin	Tier 3	FALSE	TRUE	TRUE
WOODACRE 1101CB	WOODACRE 1101	2.517197383		Marin	Tier 3	FALSE	TRUE	TRUE
WOODACRE 11021280	WOODACRE 1102	8.561214908		Marin	Tier 2	FALSE	TRUE	TRUE
WOODACRE 1102CB	WOODACRE 1102	12.29862449		Marin	Tier 3	FALSE	TRUE	TRUE
WOODLAND 110120252	WOODLAND 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1101CB	WOODLAND 1101	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1102CB	WOODLAND 1102	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1103CB	WOODLAND 1103	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 110422652	WOODLAND 1104	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1104CB	WOODLAND 1104	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1105CB	WOODLAND 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 11065842	WOODLAND 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 11068712	WOODLAND 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1106CB	WOODLAND 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 110722312	WOODLAND 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1107388804	WOODLAND 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1107CB	WOODLAND 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 110822232	WOODLAND 1108	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 11088802	WOODLAND 1108	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1108CB	WOODLAND 1108	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 110922332	WOODLAND 1109	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1109CB	WOODLAND 1109	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 111021288	WOODLAND 1110	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1110CB	WOODLAND 1110	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1111855430	WOODLAND 1111	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1111CB	WOODLAND 1111	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 111222542	WOODLAND 1112	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 111222552	WOODLAND 1112	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1112808874	WOODLAND 1112	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1112CB	WOODLAND 1112	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 11139422	WOODLAND 1113	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODLAND 1113CB	WOODLAND 1113	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
WOODSIDE 11011922	WOODSIDE 1101	4.462495665		San Mateo	Tier 3	FALSE	TRUE	TRUE
WOODSIDE 11012299	WOODSIDE 1101	1.822701046		San Mateo	Tier 3	FALSE	TRUE	TRUE
WOODSIDE 110147872	WOODSIDE 1101	4.731827583		San Mateo	Tier 3	FALSE	TRUE	TRUE
WOODSIDE 110176194	WOODSIDE 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
WOODSIDE 110179892	WOODSIDE 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
WOODSIDE 11018522	WOODSIDE 1101	1.96809959		San Mateo	Tier 3	FALSE	TRUE	TRUE
WOODSIDE 11018884	WOODSIDE 1101	7.467971471		San Mateo	Tier 3	FALSE	TRUE	TRUE
WOODSIDE 11018912	WOODSIDE 1101	3.83815936		San Mateo	Tier 3	FALSE	TRUE	FALSE
WOODSIDE 11018972	WOODSIDE 1101	6.224004682		San Mateo	Tier 3	FALSE	TRUE	TRUE
WOODSIDE 11018974	WOODSIDE 1101	13.32354202		San Mateo	Tier 3	FALSE	TRUE	TRUE
WOODSIDE 1101CB	WOODSIDE 1101	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
WOODSIDE 110239574	WOODSIDE 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
WOODSIDE 1102472928	WOODSIDE 1102	0.061500941		San Mateo	Tier 2	FALSE	TRUE	TRUE
WOODSIDE 11028862	WOODSIDE 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
WOODSIDE 11029046	WOODSIDE 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
WOODSIDE 1102CB	WOODSIDE 1102	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
WOODSIDE 11042337	WOODSIDE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
WOODSIDE 11043583	WOODSIDE 1104	2.15034505		San Mateo	Tier 3	FALSE	TRUE	TRUE
WOODSIDE 11043585	WOODSIDE 1104	0.647845875		San Mateo	Tier 3	FALSE	TRUE	FALSE
WOODSIDE 1104420146	WOODSIDE 1104	2.608416879		San Mateo	Tier 3	FALSE	TRUE	FALSE
WOODSIDE 1104456052	WOODSIDE 1104	0.176440597		San Mateo	Tier 3	FALSE	TRUE	TRUE
WOODSIDE 1104520832	WOODSIDE 1104	5.510988032		San Mateo	Tier 3	FALSE	TRUE	TRUE
WOODSIDE 1104555372	WOODSIDE 1104	4.998223657		San Mateo	Tier 2	FALSE	TRUE	FALSE
WOODSIDE 11049030	WOODSIDE 1104	1.968501257		San Mateo	Tier 2	FALSE	TRUE	FALSE
WOODSIDE 11049032	WOODSIDE 1104	1.529247396		San Mateo	Tier 3	FALSE	TRUE	TRUE
WOODSIDE 11049116	WOODSIDE 1104	0.634545708		San Mateo	Tier 2	FALSE	TRUE	TRUE
WOODSIDE 1104931904	WOODSIDE 1104	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
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WOODSIDE 110551262	WOODSIDE 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
WOODSIDE 11059160	WOODSIDE 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
WOODSIDE 1105CB	WOODSIDE 1105	0		San Mateo	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 210192860	WOODWARD 2101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 2101CB	WOODWARD 2101	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 2101R1210	WOODWARD 2101	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 210238556	WOODWARD 2102	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
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WOODWARD 2104CB	WOODWARD 2104	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 2105CB	WOODWARD 2105	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
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WOODWARD 2107850960	WOODWARD 2107	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
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WOODWARD 2108441553	WOODWARD 2108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 21085060	WOODWARD 2108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 2108703608	WOODWARD 2108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 210878448	WOODWARD 2108	18.43214023		Madera	Tier 2	FALSE	TRUE	FALSE
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WOODWARD 2108935396	WOODWARD 2108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 2108979850	WOODWARD 2108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 2108CB	WOODWARD 2108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 2108CUS1164	WOODWARD 2108	0		Madera	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 2108CUS5875	WOODWARD 2108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 2108D412	WOODWARD 2108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 2108R2860	WOODWARD 2108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 2108R867	WOODWARD 2108	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 2109CB	WOODWARD 2109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
WOODWARD 2109R9546	WOODWARD 2109	0		Fresno	Non-HFTD	FALSE	FALSE	FALSE
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WRIGHT 1110288242	WRIGHT 1110	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WRIGHT 11103220	WRIGHT 1110	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WRIGHT 11103800	WRIGHT 1110	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
WRIGHT 111084280	WRIGHT 1110	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
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WRIGHT 1110CB	WRIGHT 1110	0		Merced	Non-HFTD	FALSE	FALSE	FALSE
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WYANDOTTE 1102CB	WYANDOTTE 1102	0		Butte	Non-HFTD	FALSE	FALSE	FALSE

Workpaper 032
Pacific Gas and Electric Company
Electrical Undergrounding Program
Circuit Segment List
(Continued)

circuit_segment_id	circuit_id	circuit_segment_length	project_id	county	hftd_tier	rebuild_area	is_in_area	is_eligible_circuit_segment
WYANDOTTE 110313018	WYANDOTTE 1103	0.276446839		Butte	Tier 2	FALSE	TRUE	TRUE
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WYANDOTTE 11071026	WYANDOTTE 1107	21.46721055		Butte	Tier 2	TRUE	TRUE	FALSE
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WYANDOTTE 1107829470	WYANDOTTE 1107	10.00788536		Butte	Tier 3	FALSE	TRUE	TRUE
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YOSEMITE 0401CB	YOSEMITE 0401	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
YOSEMITE 0402CB	YOSEMITE 0402	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
YOSEMITE 0403CB	YOSEMITE 0403	0		San Francisco	Non-HFTD	FALSE	FALSE	FALSE
ZACA 1101CB	ZACA 1101	7.156905518		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
ZACA 1101Y70	ZACA 1101	5.466941093		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
ZACA 1101Y72	ZACA 1101	5.320499498		Santa Barbara	Tier 3	FALSE	TRUE	FALSE
ZACA 1102CB	ZACA 1102	14.98833772		Santa Barbara	Tier 3	FALSE	TRUE	TRUE
ZACA 1102Y02	ZACA 1102	9.997202854		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
ZACA 1102Y48	ZACA 1102	3.80892059		Santa Barbara	Tier 2	FALSE	TRUE	TRUE
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ZAMORA 1105868420	ZAMORA 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
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ZAMORA 1105CB	ZAMORA 1105	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
ZAMORA 110655084	ZAMORA 1106	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
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ZAMORA 110723345	ZAMORA 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
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ZAMORA 110769308	ZAMORA 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
ZAMORA 11078892	ZAMORA 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE
ZAMORA 1107CB	ZAMORA 1107	0		Yolo	Non-HFTD	FALSE	FALSE	FALSE

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT C

GLOSSARY OF TERMS

PACIFIC GAS AND ELECTRIC COMPANY
ELECTRICAL UNDERGROUNDING PLAN
ATTACHMENT C
GLOSSARY OF TERMS

The purpose of this Glossary is to define key terms and acronyms used throughout the Electrical Undergrounding Plan (EUP) and promote clarity and consistent interpretation.

The Glossary identifies terms with definitions from the Energy Safety EUP Guidelines , as well as terms that PG&E has adapted for use in this EUP. Definitions reproduced from Appendix A of the EUP Guidelines without modification are denoted by the following symbol at the end of the definition:**(ES)**.

TERMS

Aggregate Risk Analysis

The method for summing or aggregating risk metrics at the portfolio and system levels.

Alternative Mitigation

A mitigation strategy, other than Undergrounding, used to reduce the consequence or likelihood of wildfires and Outage Program Events on a particular Circuit Segment.**(ES)**

Backcasting

Recalculating prior results using updated inputs to enable consistent comparisons across model versions.

Backtesting

Retrospective comparison of outputs from different risk model versions to assess the impact of model changes.

Baseline

The expected risk and reliability profile of the Large Electrical Corporation's existing distribution system assuming that no Undergrounding Projects from the EUP program are constructed during the asset life cycle. The Baseline includes all previously approved Undergrounding Projects, system-hardening projects, and similar mitigation activities.(ES)

PG&E applies this definition to mean the “as is” system state before application of any EUP mitigation alternatives. This scenario incorporates EPSS and PSPS as operational mitigations for wildfire risk on the existing overhead system.

Benefit-Cost Ratio (BCR)

The ratio of the present value of lifetime benefits to the present value of lifetime costs for a mitigation. Consistent with Commission terminology, references to “BCR” are synonymous with the term “Cost-Benefit Ratio (CBR)” used in certain Commission guidance documents. See Resolution SPD-37, p. 2 n.3.

Bow Tie Model

A standardized, PG&E Company-wide model used to quantify enterprise risks in alignment with the CPUC’s Risk-Based Decision-Making Framework (RDF). Also referred to as the Enterprise Bow Tie Model.

Circuit Segment

An isolatable circuit segment.(ES)

Committed Miles

Undergrounding miles from scoped projects planned for completion in a specified year to meet annual targets.

Confirmed Project

An Undergrounding Project that has completed Screen 3 (Project Risk Analysis).(ES)

Confirmed Project Polygon

A spatial boundary generated at the beginning of Screen 3 that encompasses the entire Eligible Circuit Segment on which the Undergrounding Project is defined, except any sections already contained in another Confirmed Project Polygon.(ES)

Core Capabilities

The required use-cases that the Large Electrical Corporation’s Risk Modeling Methodology must be able to achieve in order to make quantitative arguments about the risk reduction of Undergrounding and Alternative Mitigations.(ES)

Cost Efficiency

The extent to which an activity delivers value, measured as benefits relative to costs.

Critical Facilities

Facilities and infrastructure that are essential to public safety and require additional assistance and advance planning to ensure resiliency during Public Safety Power Shutoff (PSPS) events.

Cumulative Risk Reduction

Total aggregated reduction in modeled risk over a defined time horizon.

Downed Conductor Detection (DCD)

A component of PG&E's Enhanced Powerline Safety Settings (EPSS) that adds an additional protection element to address fault types not fully mitigated through the EPSS Program. DCD does this by enhancing the ability to quickly detect and de-energize low and very low initial current (high-impedance) line-to-ground faults before an ignition can occur.

Eligible Circuit Segment

A Circuit Segment that falls within the risk score values that will be used to identify high risk Circuit Segments that are eligible for the 10-Year Electrical Undergrounding Program.(ES)

Enhanced Powerline Safety Settings (EPSS)

Protective settings that reduce Ignition Risk by rapidly de-energizing lines experiencing faults.

Feedback Loop

The Feedback Loop is used by PG&E for decision-support and as an evaluation process/tool used to analyze mitigation options for a Circuit Segment and generate benefit-cost and risk-reduction outcomes.

Fire Rebuild Area

An area with four or more spans of electric distribution infrastructure damaged by a fire that requires the electrical distribution facilities to be reconstructed or repaired.

See also Wildfire Rebuild Areas.

Fire Rebuild Projects

Reconstruction or repair of a Circuit Segment located in a Fire Rebuild Area.

High Fire Threat District (HFTD)

Areas of the state designated by the CPUC as having elevated wildfire risk, where each Electrical Corporation must take additional action to mitigate wildfire risk pursuant to Decision 17-01-009 or its successor.(ES)

High Fire Risk Area (HFRA)

Utility-identified area considered high risk for wildfire.

High Frequency Outage Program Project-Level Standard

The minimum decrease in Outage Program Likelihood as measured through formal calculations of the Key Decision-Making Metrics that any Undergrounding Project considered under the High Frequency Outage Program must achieve to meet the required substantial increase in electrical reliability achieved by reducing the use of Public Safety Power Shutoffs, Enhanced Powerline Safety Settings, deenergization events, and any other outage programs.(ES)

High Frequency Outage Program Threshold

The measure of likelihood above which is considered to have a significantly high likelihood of frequent or prolonged disruption of service to customers. This threshold must measure both likelihood of an Outage Program Event and its anticipated length. This threshold must represent less than 1 percent of Circuit Segments in the entire system by mile and no more than 10 percent of Outage Program Likelihood by score.(ES)

High-Risk Threshold

The Overall Utility Risk level above which a Circuit Segment is considered eligible for examination for expedited undergrounding.(ES)

Hybrid Project

A project combining undergrounding with other mitigation types on the same Circuit Segment.

Ignition Consequence

The total anticipated adverse effects from a wildfire on each community it reaches. This metric considers wildfire hazard intensity, wildfire exposure potential, and the inherent wildfire vulnerabilities of communities at risk.(ES)

PG&E applies the definition in Progress Report Table C.2 and in Chapter 7, Section E as follows: Ignition Consequence represents the mean expected damages conditional on an ignition occurring on a given circuit segment. It is calculated by dividing the monetized Ignition Risk by the Ignition Likelihood (i.e., the annual expected number of ignitions).

Ignition Likelihood

The likelihood of an ignition at a given location given a probabilistic set of environmental conditions. This is an unweighted and unscaled calculation.(ES)

PG&E applies the definition in Progress Report Table C.2 and in Chapter 7, Section E as follows: Ignition Likelihood, also known as the Probability of Ignition, is aggregated for a Circuit Segment from the suite of distribution asset and contact from object event probability models. The event probability models predict the likelihood of an ignition for an asset or location over the length of one fire season. Ignition Likelihood is represented in ignitions per year.

Ignition Risk

The measure of impacts from wildfire at a given location. This metric is the product of two factors: (1) the likelihood a wildfire will occur, and (2) the potential consequences of a wildfire originating from that location.(ES) (See also Wildfire Risk; PG&E uses these terms interchangeably).

PG&E applies the definition in Progress Report Table C.2 and in Chapter 7, Section E as follows: Ignition risks are Circuit Segment relative risk values based on the outputs of the WDRM. Ignition Risk is the product of the Probability of Ignition for an asset or location and the Wildfire Consequence at that location. The relative WDRM risk values are then calibrated against the absolute value of PG&E's Enterprise Risk Bow Tie for distribution Wildfire Risk. Ignition Risk is represented as a dollar value.

Ignition Tail Risk Threshold

The measure of consequence above which a Circuit Segment is considered to have significant potential for catastrophic wildfire, such that it merits special consideration. This threshold must represent less than 1 percent of Circuit Segments in the entire system by mile and no more than 10 percent of the wildfire consequence by score.(ES)

Ignition-Weighted Consequence

A consequence metric weighted by Ignition Likelihood to emphasize higher-risk locations.

In-Area Circuit Segment

A Circuit Segment located within the Large Electrical Corporation's service territory that is located in a Tier 2 or 3 High Fire-Threat District or a Wildfire Rebuild Area.(ES)

Ineligible Circuit Segment

A Circuit Segment that does not meet any Project-Level Thresholds and is removed from further evaluation.

Instantaneous Risk Reduction

The reduction in modeled risk at a specific point in time relative to baseline.

Interruption Cost Estimate (ICE) Calculator

A customer survey–based model developed by Lawrence Berkeley National Laboratory (LBNL) that estimates the economic impacts of power outages on customers based on outage duration, timing, and customer characteristics.

JavaScript Object Notation (JSON) Data Submissions

A data file type designed to track unstructured data that would not be appropriate for a spreadsheet format.(ES)

Key Decision-Making Metrics (KDMMs)

The key decision-making metrics developed pursuant to Section 2.7.3 of the EUP Guidelines.(ES)

Line Elimination Incentive Program (LEIP)

LEIP is a system hardening and wildfire risk reduction program through which PG&E provides financial incentives to property owners who voluntarily agree to permanently discontinue electric service, enabling the removal of overhead distribution facilities in High Fire Threat Districts and High Fire Risk Areas.

Line Removal Program

A PG&E system hardening program that eliminates overhead lines using remote grids, incentives, and land acquisition.

Mitigated Circuit Segment Standards

The Project-Level risk scores that an Eligible Circuit Segment must reach to be considered sufficiently mitigated under the terms of the EUP. These standards consist of the High-Risk Project-Level Standard, the Ignition Tail Risk Project-Level Standard, and the High Frequency Outage Program Project-Level Standard.(ES)

Model Risk Landscape (MRL)

The model risk landscape defined for the EUP pursuant to Section 2.7.4 of the EUP Guidelines.(ES)

Non-Cumulative

A metric that can only be expressed at a single point in time.

Non-EUP Project

A distribution undergrounding or other system-hardening project in Tier 2 or 3 High Fire-Threat District that is funded or in the Project Planning and Construction Phases that is not included in the 10-Year EUP.(ES)

Non-Ratepayer Funding

External funding sources used to offset Project costs.

Non-Undergrounding Subproject

A Subproject that uses an alternative system hardening mitigation other than undergrounding. Any resulting risk reduction is not counted toward EUP objectives.

Operations and Maintenance (O&M) Costs

Expected lifetime costs to operate and maintain electric utility distribution assets.

Outage Program

An Outage Program is: (i) any program that interrupts electrical service for the purpose of mitigating or avoiding the risk of causing a wildfire including Public Safety Power Shutoff (PSPS) programs, fast trip settings (including enhanced powerline safety settings, Fast Curve Settings, and Sensitive Relay Profile) and similar programs, and (ii) any program that could result in a deenergization event. Outage Programs exclude maintenance outages and other outages not related to reducing wildfire risk.(ES)

Outage Program Consequence

The total anticipated adverse effects from an Outage Program for a community. This considers the Outage Program exposure potential and inherent Outage Program vulnerabilities of communities at risk.(ES)

PG&E applies the definition in Progress Report Table C.2 and in Chapter 7, Section E as follows: The quantified the impact of an outage caused by an Outage Program on a Circuit Segment in dollars per outage minute and is used

to estimate the customer impact in terms of the Value of Service (VoS) lost for the count and type of customers impacted.

Outage Program Likelihood

The likelihood of a Large Electrical Corporation utilizing an Outage Program given a probabilistic set of environmental conditions.(ES)

PG&E applies the definition in Progress Report Table C.2 and in Chapter 7, Section E as follows: The expected number of outage minutes per year caused by an Outage Program on a Circuit Segment. It is calculated by summing the EPSS Likelihood and PSPS Likelihood.

Outage Program Risk

The measure of reliability impacts from Outage Programs at a given location. This metric is the product of two factors: (1) the likelihood an Outage Program Event will be required due to environmental conditions exceeding design conditions; and (2) the potential consequences of the Outage Program for affected customers, considering exposure potential and vulnerability. This is an unweighted and unscaled calculation.(ES)

PG&E applies the definition in Progress Report Table C.2 and in Chapter 7, Section E as follows: The summation of EPSS Risk and PSPS Risk, representing the total monetized impact of outages caused by an Outage Program and is used to calculate the Overall Utility Risk.

Outage Program Risk Model (OPRM)

The model used to estimate reliability risk from Outage Programs such as PSPS and EPSS.

Overall Utility Risk (OUR)

The combined measure of Ignition Risk and Outage Program Risk that measures the total risk of wildfires and Outage Program Events related to wildfire risks. This is computed as the inner product of the likelihoods of adverse events and their consequences. This is an unweighted and unscaled calculation.(ES)

PG&E applies the definition in Progress Report Table C.2 and in Chapter 7, Section E as follows: Overall Utility Risk is the combination of Ignition Risk and Outage Program Risk, along with considerations for climate change and

escalation. This is represented as a dollar value and is an unscaled and unweighted value.

Overhead System Hardening

Upgrades to overhead infrastructure to reduce wildfire and reliability risk, including installing stronger, more resistant poles and replacing bare powerlines with covered conductor.

Plan Mitigation Objective (PMO)

The amount of change in risk (wildfire and reliability) that is necessary to meet the substantiality requirements of section 8388.5(d)(2).(ES)

PG&E uses the term PMO as the amount of Overall Utility Risk targeted to be reduced for each primary overhead mile removed, applied across the EUP portfolio to drive consistent performance as the EUP progresses.

Plan Tracking Objectives (PTO)

Forward-looking, quantifiable measurements and objectives, measured at the Portfolio-Level and System-Level, used to assess progress toward the Plan Mitigation Objective.(ES)

Plant Maintenance (PM) Order

A unique identifier representing a work order in PG&E's internal tracking system used to plan, execute, track, and close maintenance or construction work on utility assets.

Portfolio

The set of all Confirmed Projects at Screen 3 or later. A portfolio is a unique list of Confirmed Projects, and adding or removing Confirmed Projects from the list constitutes an update to the Portfolio and must be indicated with a new portfolio ID.(ES)

Portfolio-Level

A measurement that accumulates information from every Circuit Segment on each Circuit which has one or more Confirmed Projects as well as the effects of Confirmed Projects on the overall Circuit into a single number.(ES)

Portfolio-Level Metrics

Metrics aggregating impacts across multiple projects or Circuit Segments.

Portfolio-Level Risk Reduction

Total reduction in risk achieved across the EUP portfolio.

Portfolio-Level Standards

The Ignition Risk Decrease Standard and the Reliability Increase Standard.(ES)

Primary Overhead Mile Removed

A unit representing one mile of overhead line removed and placed underground.

Prioritized Project

An Undergrounding Project that has passed Screen 4 (Prioritization and Finalization).(ES)

Project

A Circuit Segment with planned or in progress Wildfire System Hardening work.

Project Acceptance Framework

The multi-step process, described in Section 2.4 of the EUP Guidelines, that the Large Electrical Corporation will use to create the list of Undergrounding Projects pursuant to Section 8388.5(c)(2), to select Undergrounding Projects for construction, and to maintain and update the Circuit Segment Information Lists throughout the EUP 10-year period.(ES)

Project as Scoped

The full evaluated project scope, including all mitigation components.

Project Management Template

A standardized tool for tracking project schedule, milestones, and progress.

Project-Level

A measurement that accumulates risk from all of the equipment on a single Circuit Segment into a single number.(ES)

Project-Level Standards

The High-Risk Project-Level Standard, the High Frequency Outage Program Project-Level Standard, and the Tail Risk Project-Level Standard.(ES)

Project-Level Thresholds

The High-Risk Threshold, Ignition Tail Risk Threshold, and High Frequency Outage Program Threshold.(ES)

Pro-Rata Risk Allocation

Allocation of risk proportional to segment length.

Public Safety Power Shutoff (PSPS)

A PG&E Outage Program that proactively de-energizes powerlines during high wildfire risk conditions.

Reliability Risk

Risk associated with power outages and service interruptions.

Remote Grid

A standalone energy system used to replace overhead lines and enable line removal.

Reserve Miles

Additional planned Undergrounding Project miles that can be advanced if necessary.

Risk Density

Risk density represents the concentration of risk within a given unit of infrastructure, typically expressed as risk per mile. PG&E used wildfire risk density as the basis for ranking locations by risk per mile and prioritizing locations for advancement through the screening process. This approach helps identify where system hardening investments can achieve the greatest risk reduction per mile treated.

Risk Model Change Factor for Ignition Risk

An adjustment input to the Risk Model Impact Factor that represents the observed variance across Ignition Risk models (e.g., WDRM v3 (previous version of the wildfire risk model) vs. WDRM v4 (current version of the wildfire risk model).

Risk Model Change Factor for Outage Risk

An adjustment input to the Risk Model Impact Factor that represents the observed variance in Outage Risk models (e.g., Interruption Cost Estimate (ICE) 1.0 vs. ICE 2.0 value of service).

Risk Model Impact Factor

An adjustment factor, derived from the Risk Model Change Factors for Ignition Risk and Outage Risk, that quantifies the overall impact of risk model updates on Overall Utility Risk. The Risk Model Impact Factor is applied to key performance metrics, including the Plan Mitigation Objective and Plan Tracking Objective, to account for changes in modeled risk resulting from updates to the Ignition Risk and Outage Program Risk Models. This adjustment helps maintain the consistency and comparability of risk reduction metrics and performance results over time.

Risk Reduced per Mile Installed

Monetized risk reduction achieved per mile of mitigation installed.

Risk Reduced per Mile of Overhead Removed

Monetized risk reduction achieved per mile of primary overhead electric facilities removed.

Risk Reporting Unit (RRU)

A standardized unit used for reporting modeled risk.

Defined in CPUC Resolution SPD-37 as: A CPUC-jurisdictional effort within Electric Operations or Gas Operations that simultaneously removes or mitigates the risk associated with a group of contiguous assets or systems that exhibit high levels of risk. The RRU must include common elements that must include, but are not limited to Consequence Attributes, Risk level, line-item costs, benefit-cost ratios (CBRs), work units, and time. The RRU can be aggregated along several dimensions based on unique identifiers that include, but are not limited to, hierarchy, scenario, version, risk event, tranche, and mitigation types.

Short Circuit Segment

Circuit Segments that are less than one mile in length.

Subproject

A delimited portion of work on a Confirmed Project. A Subproject must have a uniform set of mitigations applied to the entire Subproject. If a project does not have a uniform set of mitigations, it must be divided into more Subprojects.(ES)

System-Level

A measurement that accumulates information from the entire electrical distribution system into a single number.(ES)

Undergrounding Program

PG&E's program to relocate overhead lines underground to reduce Wildfire Risk and Outage Program Risk.

Undergrounding Project

An Eligible Circuit Segment that has completed Screen 2, including the CPUC Data Appendix 1 information completed.(ES)

Undergrounding Subproject

A Subproject that is comprised of only Undergrounding activities, including the Undergrounding Support Work necessary to complete the Undergrounding Subproject.(ES)

Wildfire Benefit Cost Analysis (WBCA)

A PG&E model used to evaluate costs and benefits of mitigation options over asset life.

Wildfire Distribution Risk Model (WDRM)

The PG&E model used to estimate wildfire risk at the Circuit Segment level.

Wildfire Rebuild Area

A location where distribution infrastructure has been damaged by wildfire that is specifically identified by the Large Electrical Corporation in the EUP or in a Progress Report.(ES)

PG&E uses the term 'Fire Rebuild Area' to refer to areas with four or more spans of electric distribution infrastructure damaged by a fire that requires the electrical distribution facilities to be reconstructed or repaired.

Wildfire Risk

The measure of impacts from wildfire at a given location. This metric is the product of two factors: (1) the likelihood a wildfire will occur, and (2) the potential consequences of a wildfire originating from that location. (See also Ignition Risk; PG&E uses these terms interchangeably).

Workplan/EUP Workplan

The set of Projects and Subprojects planned for completion under the EUP.

PACIFIC GAS AND ELECTRIC COMPANY

ELECTRICAL UNDERGROUNDING PLAN

ATTACHMENT D

SPD-37 APPENDIX 1 DATA SUBMISSION

Attachment D: SPD-37 Appendix 1 Data Submission includes the following files provided separately in the zip folder named PGE_Initial_2026-11-02_Attachment D_R0.zip and as a PDF following this coversheet:

SPD-37 Table 1: Data Set

SPD-37 Table 2: Cost Breakdown

SPD-37 Table 3: Risk Model Change Tracker

SPD-37 Table 4: HFTD and Associated Asset

SPD-37 Table 5: Financial Inputs

SPD-37 Table 6: Interruption Cost Estimate Calculator Inputs

SPD-37 Table 7: Annual Costs (Capital and O&M) and O&M Savings

SPD-37
Pacific Gas and Electric Company
Electrical Undergrounding Program
SPD-37 Table 1: Data Set

sorter	rru_id	oeis_subproject_id	oeis_project_id	circuit_segment_id	qdr_circuit_segment_id	grc_activity_code	filings	customer_count_residential	customer_count_non_residential	state_legislative_district
Proj00001-3UG-ALT1Hybrid Discount Rate Scenario	Proj00001-3UG-ALT1		Proj00001	PUEBLO 21031970				783	23	Congressional District 4
Proj00001-3UG-ALT1Societal Discount Rate Scenario	Proj00001-3UG-ALT1		Proj00001	PUEBLO 21031970				783	23	Congressional District 4
Proj00001-3UG-ALT1WACC Discount Rate Scenario	Proj00001-3UG-ALT1		Proj00001	PUEBLO 21031970				783	23	Congressional District 4
Proj00001-3UG-PASHybrid Discount Rate Scenario	Proj00001-3UG-PAS		Proj00001	PUEBLO 21031970		3UG	EUP	24	4	Congressional District 4
Proj00001-3UG-PASSocietal Discount Rate Scenario	Proj00001-3UG-PAS		Proj00001	PUEBLO 21031970		3UG	EUP	24	4	Congressional District 4
Proj00001-3UG-PASWACC Discount Rate Scenario	Proj00001-3UG-PAS		Proj00001	PUEBLO 21031970		3UG	EUP	24	4	Congressional District 4
Proj00001-3UG-UGASHybrid Discount Rate Scenario	Proj00001-3UG-UGAS	Proj00001-3UG-UGAS	Proj00001	PUEBLO 21031970		3UG	EUP	24	4	Congressional District 4
Proj00001-3UG-UGASSocietal Discount Rate Scenario	Proj00001-3UG-UGAS	Proj00001-3UG-UGAS	Proj00001	PUEBLO 21031970		3UG	EUP	24	4	Congressional District 4
Proj00001-3UG-UGASWACC Discount Rate Scenario	Proj00001-3UG-UGAS	Proj00001-3UG-UGAS	Proj00001	PUEBLO 21031970		3UG	EUP	24	4	Congressional District 4
Proj00002-3UG-ALT1Hybrid Discount Rate Scenario	Proj00002-3UG-ALT1		Proj00002	MIWUK 1701CB				216	18	Congressional District 5
Proj00002-3UG-ALT1Societal Discount Rate Scenario	Proj00002-3UG-ALT1		Proj00002	MIWUK 1701CB				216	18	Congressional District 5
Proj00002-3UG-ALT1WACC Discount Rate Scenario	Proj00002-3UG-ALT1		Proj00002	MIWUK 1701CB				216	18	Congressional District 5
Proj00002-3UG-PASHybrid Discount Rate Scenario	Proj00002-3UG-PAS		Proj00002	MIWUK 1701CB		3UG	EUP	129	3	Congressional District 5
Proj00002-3UG-PASSocietal Discount Rate Scenario	Proj00002-3UG-PAS		Proj00002	MIWUK 1701CB		3UG	EUP	129	3	Congressional District 5
Proj00002-3UG-PASWACC Discount Rate Scenario	Proj00002-3UG-PAS		Proj00002	MIWUK 1701CB		3UG	EUP	129	3	Congressional District 5
Proj00002-3UG-UGASHybrid Discount Rate Scenario	Proj00002-3UG-UGAS	Proj00002-3UG-UGAS	Proj00002	MIWUK 1701CB		3UG	EUP	129	3	Congressional District 5
Proj00002-3UG-UGASSocietal Discount Rate Scenario	Proj00002-3UG-UGAS	Proj00002-3UG-UGAS	Proj00002	MIWUK 1701CB		3UG	EUP	129	3	Congressional District 5
Proj00002-3UG-UGASWACC Discount Rate Scenario	Proj00002-3UG-UGAS	Proj00002-3UG-UGAS	Proj00002	MIWUK 1701CB		3UG	EUP	129	3	Congressional District 5
Proj00003-3UG-ALT1Hybrid Discount Rate Scenario	Proj00003-3UG-ALT1		Proj00003	FORESTHILL 1101CB				357	87	Congressional District 3
Proj00003-3UG-ALT1Societal Discount Rate Scenario	Proj00003-3UG-ALT1		Proj00003	FORESTHILL 1101CB				357	87	Congressional District 3
Proj00003-3UG-ALT1WACC Discount Rate Scenario	Proj00003-3UG-ALT1		Proj00003	FORESTHILL 1101CB				357	87	Congressional District 3
Proj00003-3UG-PASHybrid Discount Rate Scenario	Proj00003-3UG-PAS		Proj00003	FORESTHILL 1101CB		3UG	EUP	294	55	Congressional District 3
Proj00003-3UG-PASSocietal Discount Rate Scenario	Proj00003-3UG-PAS		Proj00003	FORESTHILL 1101CB		3UG	EUP	294	55	Congressional District 3
Proj00003-3UG-PASWACC Discount Rate Scenario	Proj00003-3UG-PAS		Proj00003	FORESTHILL 1101CB		3UG	EUP	294	55	Congressional District 3
Proj00003-3UG-UGASHybrid Discount Rate Scenario	Proj00003-3UG-UGAS	Proj00003-3UG-UGAS	Proj00003	FORESTHILL 1101CB		3UG	EUP	294	55	Congressional District 3
Proj00003-3UG-UGASSocietal Discount Rate Scenario	Proj00003-3UG-UGAS	Proj00003-3UG-UGAS	Proj00003	FORESTHILL 1101CB		3UG	EUP	294	55	Congressional District 3
Proj00003-3UG-UGASWACC Discount Rate Scenario	Proj00003-3UG-UGAS	Proj00003-3UG-UGAS	Proj00003	FORESTHILL 1101CB		3UG	EUP	294	55	Congressional District 3
Proj00004-3UG-ALT1Hybrid Discount Rate Scenario	Proj00004-3UG-ALT1		Proj00004	DUNBAR 1103799422				6	1	Congressional District 4
Proj00004-3UG-ALT1Societal Discount Rate Scenario	Proj00004-3UG-ALT1		Proj00004	DUNBAR 1103799422				6	1	Congressional District 4
Proj00004-3UG-ALT1WACC Discount Rate Scenario	Proj00004-3UG-ALT1		Proj00004	DUNBAR 1103799422				6	1	Congressional District 4
Proj00004-3UG-PASHybrid Discount Rate Scenario	Proj00004-3UG-PAS		Proj00004	DUNBAR 1103799422		3UG	EUP	6	1	Congressional District 4
Proj00004-3UG-PASSocietal Discount Rate Scenario	Proj00004-3UG-PAS		Proj00004	DUNBAR 1103799422		3UG	EUP	6	1	Congressional District 4
Proj00004-3UG-PASWACC Discount Rate Scenario	Proj00004-3UG-PAS		Proj00004	DUNBAR 1103799422		3UG	EUP	6	1	Congressional District 4
Proj00004-3UG-UGASHybrid Discount Rate Scenario	Proj00004-3UG-UGAS	Proj00004-3UG-UGAS	Proj00004	DUNBAR 1103799422		3UG	EUP	6	1	Congressional District 4
Proj00004-3UG-UGASSocietal Discount Rate Scenario	Proj00004-3UG-UGAS	Proj00004-3UG-UGAS	Proj00004	DUNBAR 1103799422		3UG	EUP	6	1	Congressional District 4
Proj00004-3UG-UGASWACC Discount Rate Scenario	Proj00004-3UG-UGAS	Proj00004-3UG-UGAS	Proj00004	DUNBAR 1103799422		3UG	EUP	6	1	Congressional District 4
Proj00005-3UG-ALT1Hybrid Discount Rate Scenario	Proj00005-3UG-ALT1		Proj00005	FORESTHILL 11011820				45	3	Congressional District 3
Proj00005-3UG-ALT1Societal Discount Rate Scenario	Proj00005-3UG-ALT1		Proj00005	FORESTHILL 11011820				45	3	Congressional District 3
Proj00005-3UG-ALT1WACC Discount Rate Scenario	Proj00005-3UG-ALT1		Proj00005	FORESTHILL 11011820				45	3	Congressional District 3
Proj00005-3UG-PASHybrid Discount Rate Scenario	Proj00005-3UG-PAS		Proj00005	FORESTHILL 11011820		3UG	EUP	31	1	Congressional District 3
Proj00005-3UG-PASSocietal Discount Rate Scenario	Proj00005-3UG-PAS		Proj00005	FORESTHILL 11011820		3UG	EUP	31	1	Congressional District 3
Proj00005-3UG-PASWACC Discount Rate Scenario	Proj00005-3UG-PAS		Proj00005	FORESTHILL 11011820		3UG	EUP	31	1	Congressional District 3
Proj00005-3UG-UGASHybrid Discount Rate Scenario	Proj00005-3UG-UGAS	Proj00005-3UG-UGAS	Proj00005	FORESTHILL 11011820		3UG	EUP	31	1	Congressional District 3
Proj00005-3UG-UGASSocietal Discount Rate Scenario	Proj00005-3UG-UGAS	Proj00005-3UG-UGAS	Proj00005	FORESTHILL 11011820		3UG	EUP	31	1	Congressional District 3
Proj00005-3UG-UGASWACC Discount Rate Scenario	Proj00005-3UG-UGAS	Proj00005-3UG-UGAS	Proj00005	FORESTHILL 11011820		3UG	EUP	31	1	Congressional District 3
Proj00006-3UG-ALT1Hybrid Discount Rate Scenario	Proj00006-3UG-ALT1		Proj00006	GIRVAN 1101CB				84	37	Congressional District 1
Proj00006-3UG-ALT1Societal Discount Rate Scenario	Proj00006-3UG-ALT1		Proj00006	GIRVAN 1101CB				84	37	Congressional District 1
Proj00006-3UG-ALT1WACC Discount Rate Scenario	Proj00006-3UG-ALT1		Proj00006	GIRVAN 1101CB				84	37	Congressional District 1
Proj00006-3UG-PASHybrid Discount Rate Scenario	Proj00006-3UG-PAS		Proj00006	GIRVAN 1101CB		08W, 3UG	EUP, GRC	75	30	Congressional District 1
Proj00006-3UG-PASSocietal Discount Rate Scenario	Proj00006-3UG-PAS		Proj00006	GIRVAN 1101CB		08W, 3UG	EUP, GRC	75	30	Congressional District 1
Proj00006-3UG-PASWACC Discount Rate Scenario	Proj00006-3UG-PAS		Proj00006	GIRVAN 1101CB		08W, 3UG	EUP, GRC	75	30	Congressional District 1
Proj00006-3UG-UGASHybrid Discount Rate Scenario	Proj00006-3UG-UGAS	Proj00006-3UG-UGAS	Proj00006	GIRVAN 1101CB		3UG	EUP	71	14	Congressional District 1
Proj00006-3UG-UGASSocietal Discount Rate Scenario	Proj00006-3UG-UGAS	Proj00006-3UG-UGAS	Proj00006	GIRVAN 1101CB		3UG	EUP	71	14	Congressional District 1
Proj00006-3UG-UGASWACC Discount Rate Scenario	Proj00006-3UG-UGAS	Proj00006-3UG-UGAS	Proj00006	GIRVAN 1101CB		3UG	EUP	71	14	Congressional District 1
Proj00007-3UG-ALT1Hybrid Discount Rate Scenario	Proj00007-3UG-ALT1		Proj00007	LOS GATOS 1107812664				56	2	Congressional District 16, 19
Proj00007-3UG-ALT1Societal Discount Rate Scenario	Proj00007-3UG-ALT1		Proj00007	LOS GATOS 1107812664				56	2	Congressional District 16, 19
Proj00007-3UG-ALT1WACC Discount Rate Scenario	Proj00007-3UG-ALT1		Proj00007	LOS GATOS 1107812664				56	2	Congressional District 16, 19
Proj00007-3UG-PASHybrid Discount Rate Scenario	Proj00007-3UG-PAS		Proj00007	LOS GATOS 1107812664		08W, 3UG	EUP, GRC	56	1	Congressional District 16, 19
Proj00007-3UG-PASSocietal Discount Rate Scenario	Proj00007-3UG-PAS		Proj00007	LOS GATOS 1107812664		08W, 3UG	EUP, GRC	56	1	Congressional District 16, 19
Proj00007-3UG-PASWACC Discount Rate Scenario	Proj00007-3UG-PAS		Proj00007	LOS GATOS 1107812664		08W, 3UG	EUP, GRC	56	1	Congressional District 16, 19
Proj00007-3UG-UGASHybrid Discount Rate Scenario	Proj00007-3UG-UGAS	Proj00007-3UG-UGAS	Proj00007	LOS GATOS 1107812664		3UG	EUP	10	0	Congressional District 16, 19
Proj00007-3UG-UGASSocietal Discount Rate Scenario	Proj00007-3UG-UGAS	Proj00007-3UG-UGAS	Proj00007	LOS GATOS 1107812664		3UG	EUP	10	0	Congressional District 16, 19
Proj00007-3UG-UGASWACC Discount Rate Scenario	Proj00007-3UG-UGAS	Proj00007-3UG-UGAS	Proj00007	LOS GATOS 1107812664		3UG	EUP	10	0	Congressional District 16, 19
Proj00008-3UG-ALT1Hybrid Discount Rate Scenario	Proj00008-3UG-ALT1		Proj00008	GEYSERVILLE 1102904170				25	35	Congressional District 2
Proj00008-3UG-ALT1Societal Discount Rate Scenario	Proj00008-3UG-ALT1		Proj00008	GEYSERVILLE 1102904170				25	35	Congressional District 2
Proj00008-3UG-ALT1WACC Discount Rate Scenario	Proj00008-3UG-ALT1		Proj00008	GEYSERVILLE 1102904170				25	35	Congressional District 2
Proj00008-3UG-PASHybrid Discount Rate Scenario	Proj00008-3UG-PAS		Proj00008	GEYSERVILLE 1102904170		08W, 3UG	EUP, GRC	18	24	Congressional District 2
Proj00008-3UG-PASSocietal Discount Rate Scenario	Proj00008-3UG-PAS		Proj00008	GEYSERVILLE 1102904170		08W, 3UG	EUP, GRC	18	24	Congressional District 2
Proj00008-3UG-PASWACC Discount Rate Scenario	Proj00008-3UG-PAS		Proj00008	GEYSERVILLE 1102904170		08W, 3UG	EUP, GRC	18	24	Congressional District 2
Proj00008-3UG-UGASHybrid Discount Rate Scenario	Proj00008-3UG-UGAS	Proj00008-3UG-UGAS	Proj00008	GEYSERVILLE 1102904170		3UG	EUP	8	13	Congressional District 2
Proj00008-3UG-UGASSocietal Discount Rate Scenario	Proj00008-3UG-UGAS	Proj00008-3UG-UGAS	Proj00008	GEYSERVILLE 1102904170		3UG	EUP	8	13	Congressional District 2
Proj00008-3UG-UGASWACC Discount Rate Scenario	Proj00008-3UG-UGAS	Proj00008-3UG-UGAS	Proj00008	GEYSERVILLE 1102904170		3UG	EUP	8	13	Congressional District 2
Proj00009-3UG-ALT1Hybrid Discount Rate Scenario	Proj00009-3UG-ALT1		Proj00009	ALTO 1124430				723	48	Congressional District 2
Proj00009-3UG-ALT1Societal Discount Rate Scenario	Proj00009-3UG-ALT1		Proj00009	ALTO 1124430				723	48	Congressional District 2
Proj00009-3UG-ALT1WACC Discount Rate Scenario	Proj00009-3UG-ALT1		Proj00009	ALTO 1124430				723	48	Congressional District 2
Proj00009-3UG-PASHybrid Discount Rate Scenario	Proj00009-3UG-PAS		Proj00009	ALTO 1124430		08W, 3UG	EUP, GRC	666	22	Congressional District 2
Proj00009-3UG-PASSocietal Discount Rate Scenario	Proj00009-3UG-PAS		Proj00009	ALTO 1124430		08W, 3UG	EUP, GRC	666	22	Congressional District 2

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sorter	rru_id	oeis_subproject_id	oeis_project_id	circuit_segment_id	qdr_circuit_segment_id	grc_activity_code	filings	customer_count_residential	customer_count_non_residential	state_legislative_district
Proj00009-3UG-PASWACC Discount Rate Scenario	Proj00009-3UG-PAS		Proj00009	ALTO 1124430		08W, 3UG	EUP, GRC	666	22	Congressional District 2
Proj00009-3UG-UGASHybrid Discount Rate Scenario	Proj00009-3UG-UGAS	Proj00009-3UG-UGAS	Proj00009	ALTO 1124430		3UG	EUP	610	19	Congressional District 2
Proj00009-3UG-UGASSocietal Discount Rate Scenario	Proj00009-3UG-UGAS	Proj00009-3UG-UGAS	Proj00009	ALTO 1124430		3UG	EUP	610	19	Congressional District 2
Proj00009-3UG-UGASWACC Discount Rate Scenario	Proj00009-3UG-UGAS	Proj00009-3UG-UGAS	Proj00009	ALTO 1124430		3UG	EUP	610	19	Congressional District 2
Proj00010-3UG-ALT1Hybrid Discount Rate Scenario	Proj00010-3UG-ALT1		Proj00010	LAURELES 111268454				492	42	Congressional District 19
Proj00010-3UG-ALT1Societal Discount Rate Scenario	Proj00010-3UG-ALT1		Proj00010	LAURELES 111268454				492	42	Congressional District 19
Proj00010-3UG-ALT1WACC Discount Rate Scenario	Proj00010-3UG-ALT1		Proj00010	LAURELES 111268454				492	42	Congressional District 19
Proj00010-3UG-PASHybrid Discount Rate Scenario	Proj00010-3UG-PAS		Proj00010	LAURELES 111268454		08W, 3UG	EUP, GRC	339	25	Congressional District 19
Proj00010-3UG-PASSocietal Discount Rate Scenario	Proj00010-3UG-PAS		Proj00010	LAURELES 111268454		08W, 3UG	EUP, GRC	339	25	Congressional District 19
Proj00010-3UG-PASWACC Discount Rate Scenario	Proj00010-3UG-PAS		Proj00010	LAURELES 111268454		08W, 3UG	EUP, GRC	339	25	Congressional District 19
Proj00010-3UG-UGASHybrid Discount Rate Scenario	Proj00010-3UG-UGAS	Proj00010-3UG-UGAS	Proj00010	LAURELES 111268454		3UG	EUP	290	23	Congressional District 19
Proj00010-3UG-UGASSocietal Discount Rate Scenario	Proj00010-3UG-UGAS	Proj00010-3UG-UGAS	Proj00010	LAURELES 111268454		3UG	EUP	290	23	Congressional District 19
Proj00010-3UG-UGASWACC Discount Rate Scenario	Proj00010-3UG-UGAS	Proj00010-3UG-UGAS	Proj00010	LAURELES 111268454		3UG	EUP	290	23	Congressional District 19
Proj00011-3UG-ALT1Hybrid Discount Rate Scenario	Proj00011-3UG-ALT1		Proj00011	EL DORADO PH 2101668674				428	30	Congressional District 3
Proj00011-3UG-ALT1Societal Discount Rate Scenario	Proj00011-3UG-ALT1		Proj00011	EL DORADO PH 2101668674				428	30	Congressional District 3
Proj00011-3UG-ALT1WACC Discount Rate Scenario	Proj00011-3UG-ALT1		Proj00011	EL DORADO PH 2101668674				428	30	Congressional District 3
Proj00011-3UG-PASHybrid Discount Rate Scenario	Proj00011-3UG-PAS		Proj00011	EL DORADO PH 2101668674		3UG	EUP	174	2	Congressional District 3
Proj00011-3UG-PASSocietal Discount Rate Scenario	Proj00011-3UG-PAS		Proj00011	EL DORADO PH 2101668674		3UG	EUP	174	2	Congressional District 3
Proj00011-3UG-PASWACC Discount Rate Scenario	Proj00011-3UG-PAS		Proj00011	EL DORADO PH 2101668674		3UG	EUP	174	2	Congressional District 3
Proj00011-3UG-UGASHybrid Discount Rate Scenario	Proj00011-3UG-UGAS	Proj00011-3UG-UGAS	Proj00011	EL DORADO PH 2101668674		3UG	EUP	174	2	Congressional District 3
Proj00011-3UG-UGASSocietal Discount Rate Scenario	Proj00011-3UG-UGAS	Proj00011-3UG-UGAS	Proj00011	EL DORADO PH 2101668674		3UG	EUP	174	2	Congressional District 3
Proj00011-3UG-UGASWACC Discount Rate Scenario	Proj00011-3UG-UGAS	Proj00011-3UG-UGAS	Proj00011	EL DORADO PH 2101668674		3UG	EUP	174	2	Congressional District 3
Proj00012-3UG-ALT1Hybrid Discount Rate Scenario	Proj00012-3UG-ALT1		Proj00012	JESSUP 110168362				254	26	Congressional District 1
Proj00012-3UG-ALT1Societal Discount Rate Scenario	Proj00012-3UG-ALT1		Proj00012	JESSUP 110168362				254	26	Congressional District 1
Proj00012-3UG-ALT1WACC Discount Rate Scenario	Proj00012-3UG-ALT1		Proj00012	JESSUP 110168362				254	26	Congressional District 1
Proj00012-3UG-PASHybrid Discount Rate Scenario	Proj00012-3UG-PAS		Proj00012	JESSUP 110168362		08W, 3UG	EUP, GRC	127	16	Congressional District 1
Proj00012-3UG-PASSocietal Discount Rate Scenario	Proj00012-3UG-PAS		Proj00012	JESSUP 110168362		08W, 3UG	EUP, GRC	127	16	Congressional District 1
Proj00012-3UG-PASWACC Discount Rate Scenario	Proj00012-3UG-PAS		Proj00012	JESSUP 110168362		08W, 3UG	EUP, GRC	127	16	Congressional District 1
Proj00012-3UG-UGASHybrid Discount Rate Scenario	Proj00012-3UG-UGAS	Proj00012-3UG-UGAS	Proj00012	JESSUP 110168362		3UG	EUP	26	0	Congressional District 1
Proj00012-3UG-UGASSocietal Discount Rate Scenario	Proj00012-3UG-UGAS	Proj00012-3UG-UGAS	Proj00012	JESSUP 110168362		3UG	EUP	26	0	Congressional District 1
Proj00012-3UG-UGASWACC Discount Rate Scenario	Proj00012-3UG-UGAS	Proj00012-3UG-UGAS	Proj00012	JESSUP 110168362		3UG	EUP	26	0	Congressional District 1
Proj00013-3UG-ALT1Hybrid Discount Rate Scenario	Proj00013-3UG-ALT1		Proj00013	BEN LOMOND 0401944178				440	41	Congressional District 19
Proj00013-3UG-ALT1Societal Discount Rate Scenario	Proj00013-3UG-ALT1		Proj00013	BEN LOMOND 0401944178				440	41	Congressional District 19
Proj00013-3UG-ALT1WACC Discount Rate Scenario	Proj00013-3UG-ALT1		Proj00013	BEN LOMOND 0401944178				440	41	Congressional District 19
Proj00013-3UG-PASHybrid Discount Rate Scenario	Proj00013-3UG-PAS		Proj00013	BEN LOMOND 0401944178		3UG	EUP	439	42	Congressional District 19
Proj00013-3UG-PASSocietal Discount Rate Scenario	Proj00013-3UG-PAS		Proj00013	BEN LOMOND 0401944178		3UG	EUP	439	42	Congressional District 19
Proj00013-3UG-PASWACC Discount Rate Scenario	Proj00013-3UG-PAS		Proj00013	BEN LOMOND 0401944178		3UG	EUP	439	42	Congressional District 19
Proj00013-3UG-UGASHybrid Discount Rate Scenario	Proj00013-3UG-UGAS	Proj00013-3UG-UGAS	Proj00013	BEN LOMOND 0401944178		3UG	EUP	439	42	Congressional District 19
Proj00013-3UG-UGASSocietal Discount Rate Scenario	Proj00013-3UG-UGAS	Proj00013-3UG-UGAS	Proj00013	BEN LOMOND 0401944178		3UG	EUP	439	42	Congressional District 19
Proj00013-3UG-UGASWACC Discount Rate Scenario	Proj00013-3UG-UGAS	Proj00013-3UG-UGAS	Proj00013	BEN LOMOND 0401944178		3UG	EUP	439	42	Congressional District 19
Proj00014-3UG-ALT1Hybrid Discount Rate Scenario	Proj00014-3UG-ALT1		Proj00014	WOODACRE 1102851				91	4	Congressional District 2
Proj00014-3UG-ALT1Societal Discount Rate Scenario	Proj00014-3UG-ALT1		Proj00014	WOODACRE 1102851				91	4	Congressional District 2
Proj00014-3UG-ALT1WACC Discount Rate Scenario	Proj00014-3UG-ALT1		Proj00014	WOODACRE 1102851				91	4	Congressional District 2
Proj00014-3UG-PASHybrid Discount Rate Scenario	Proj00014-3UG-PAS		Proj00014	WOODACRE 1102851		3UG	EUP	91	4	Congressional District 2
Proj00014-3UG-PASSocietal Discount Rate Scenario	Proj00014-3UG-PAS		Proj00014	WOODACRE 1102851		3UG	EUP	91	4	Congressional District 2
Proj00014-3UG-PASWACC Discount Rate Scenario	Proj00014-3UG-PAS		Proj00014	WOODACRE 1102851		3UG	EUP	91	4	Congressional District 2
Proj00014-3UG-UGASHybrid Discount Rate Scenario	Proj00014-3UG-UGAS	Proj00014-3UG-UGAS	Proj00014	WOODACRE 1102851		3UG	EUP	91	4	Congressional District 2
Proj00014-3UG-UGASSocietal Discount Rate Scenario	Proj00014-3UG-UGAS	Proj00014-3UG-UGAS	Proj00014	WOODACRE 1102851		3UG	EUP	91	4	Congressional District 2
Proj00014-3UG-UGASWACC Discount Rate Scenario	Proj00014-3UG-UGAS	Proj00014-3UG-UGAS	Proj00014	WOODACRE 1102851		3UG	EUP	91	4	Congressional District 2
Proj00015-3UG-ALT1Hybrid Discount Rate Scenario	Proj00015-3UG-ALT1		Proj00015	ELECTRA 1101CB				178	11	Congressional District 5
Proj00015-3UG-ALT1Societal Discount Rate Scenario	Proj00015-3UG-ALT1		Proj00015	ELECTRA 1101CB				178	11	Congressional District 5
Proj00015-3UG-ALT1WACC Discount Rate Scenario	Proj00015-3UG-ALT1		Proj00015	ELECTRA 1101CB				178	11	Congressional District 5
Proj00015-3UG-PASHybrid Discount Rate Scenario	Proj00015-3UG-PAS		Proj00015	ELECTRA 1101CB		08W, 3UG	EUP, GRC	160	10	Congressional District 5
Proj00015-3UG-PASSocietal Discount Rate Scenario	Proj00015-3UG-PAS		Proj00015	ELECTRA 1101CB		08W, 3UG	EUP, GRC	160	10	Congressional District 5
Proj00015-3UG-PASWACC Discount Rate Scenario	Proj00015-3UG-PAS		Proj00015	ELECTRA 1101CB		08W, 3UG	EUP, GRC	160	10	Congressional District 5
Proj00015-3UG-UGASHybrid Discount Rate Scenario	Proj00015-3UG-UGAS	Proj00015-3UG-UGAS	Proj00015	ELECTRA 1101CB		3UG	EUP	159	10	Congressional District 5
Proj00015-3UG-UGASSocietal Discount Rate Scenario	Proj00015-3UG-UGAS	Proj00015-3UG-UGAS	Proj00015	ELECTRA 1101CB		3UG	EUP	159	10	Congressional District 5
Proj00015-3UG-UGASWACC Discount Rate Scenario	Proj00015-3UG-UGAS	Proj00015-3UG-UGAS	Proj00015	ELECTRA 1101CB		3UG	EUP	159	10	Congressional District 5
Proj00016-3UG-ALT1Hybrid Discount Rate Scenario	Proj00016-3UG-ALT1		Proj00016	MARIPOSA 210110070				221	9	Congressional District 5
Proj00016-3UG-ALT1Societal Discount Rate Scenario	Proj00016-3UG-ALT1		Proj00016	MARIPOSA 210110070				221	9	Congressional District 5
Proj00016-3UG-ALT1WACC Discount Rate Scenario	Proj00016-3UG-ALT1		Proj00016	MARIPOSA 210110070				221	9	Congressional District 5
Proj00016-3UG-PASHybrid Discount Rate Scenario	Proj00016-3UG-PAS		Proj00016	MARIPOSA 210110070		08W, 3UG	EUP, GRC	217	9	Congressional District 5
Proj00016-3UG-PASSocietal Discount Rate Scenario	Proj00016-3UG-PAS		Proj00016	MARIPOSA 210110070		08W, 3UG	EUP, GRC	217	9	Congressional District 5
Proj00016-3UG-PASWACC Discount Rate Scenario	Proj00016-3UG-PAS		Proj00016	MARIPOSA 210110070		08W, 3UG	EUP, GRC	217	9	Congressional District 5
Proj00016-3UG-UGASHybrid Discount Rate Scenario	Proj00016-3UG-UGAS	Proj00016-3UG-UGAS	Proj00016	MARIPOSA 210110070		3UG	EUP	6	0	Congressional District 5
Proj00016-3UG-UGASSocietal Discount Rate Scenario	Proj00016-3UG-UGAS	Proj00016-3UG-UGAS	Proj00016	MARIPOSA 210110070		3UG	EUP	6	0	Congressional District 5
Proj00016-3UG-UGASWACC Discount Rate Scenario	Proj00016-3UG-UGAS	Proj00016-3UG-UGAS	Proj00016	MARIPOSA 210110070		3UG	EUP	6	0	Congressional District 5
Proj00017-3UG-ALT1Hybrid Discount Rate Scenario	Proj00017-3UG-ALT1		Proj00017	SAN RAFAEL 1108322				1241	83	Congressional District 2
Proj00017-3UG-ALT1Societal Discount Rate Scenario	Proj00017-3UG-ALT1		Proj00017	SAN RAFAEL 1108322				1241	83	Congressional District 2
Proj00017-3UG-ALT1WACC Discount Rate Scenario	Proj00017-3UG-ALT1		Proj00017	SAN RAFAEL 1108322				1241	83	Congressional District 2
Proj00017-3UG-PASHybrid Discount Rate Scenario	Proj00017-3UG-PAS		Proj00017	SAN RAFAEL 1108322		08W, 3UG	EUP, GRC	1076	53	Congressional District 2
Proj00017-3UG-PASSocietal Discount Rate Scenario	Proj00017-3UG-PAS		Proj00017	SAN RAFAEL 1108322		08W, 3UG	EUP, GRC	1076	53	Congressional District 2
Proj00017-3UG-PASWACC Discount Rate Scenario	Proj00017-3UG-PAS		Proj00017	SAN RAFAEL 1108322		08W, 3UG	EUP, GRC	1076	53	Congressional District 2
Proj00017-3UG-UGASHybrid Discount Rate Scenario	Proj00017-3UG-UGAS	Proj00017-3UG-UGAS	Proj00017	SAN RAFAEL 1108322		3UG	EUP	395	11	Congressional District 2
Proj00017-3UG-UGASSocietal Discount Rate Scenario	Proj00017-3UG-UGAS	Proj00017-3UG-UGAS	Proj00017	SAN RAFAEL 1108322		3UG	EUP	395	11	Congressional District 2
Proj00017-3UG-UGASWACC Discount Rate Scenario	Proj00017-3UG-UGAS	Proj00017-3UG-UGAS	Proj00017	SAN RAFAEL 1108322		3UG	EUP	395	11	Congressional District 2
Proj00018-3UG-ALT1Hybrid Discount Rate Scenario	Proj00018-3UG-ALT1		Proj00018	OAKLAND X 1104CR288				528	16	Congressional District 12
Proj00018-3UG-ALT1Societal Discount Rate Scenario	Proj00018-3UG-ALT1		Proj00018	OAKLAND X 1104CR288				528	16	Congressional District 12
Proj00018-3UG-ALT1WACC Discount Rate Scenario	Proj00018-3UG-ALT1		Proj00018	OAKLAND X 1104CR288				528	16	Congressional District 12
Proj00018-3UG-PASHybrid Discount Rate Scenario	Proj00018-3UG-PAS		Proj00018	OAKLAND X 1104CR288		3UG	EUP	288	11	Congressional District 12
Proj00018-3UG-PASSocietal Discount Rate Scenario	Proj00018-3UG-PAS		Proj00018	OAKLAND X 1104CR288		3UG	EUP	288	11	Congressional District 12
Proj00018-3UG-PASWACC Discount Rate Scenario	Proj00018-3UG-PAS		Proj00018	OAKLAND X 1104CR288		3UG	EUP	288	11	Congressional District 12

SPD-37
Pacific Gas and Electric Company
Electrical Undergrounding Program
SPD-37 Table 1: Data Set

sorter	rru_id	oeis_subproject_id	oeis_project_id	circuit_segment_id	qdr_circuit_segment_id	grc_activity_code	filings	customer_count_residential	customer_count_non_residential	state_legislative_district
Proj00018-3UG-UGASHybrid Discount Rate Scenario	Proj00018-3UG-UGAS	Proj00018-3UG-UGAS	Proj00018	OAKLAND X 1104CR288		3UG	EUP	288	11	Congressional District 12
Proj00018-3UG-UGASSocietal Discount Rate Scenario	Proj00018-3UG-UGAS	Proj00018-3UG-UGAS	Proj00018	OAKLAND X 1104CR288		3UG	EUP	288	11	Congressional District 12
Proj00018-3UG-UGASWACC Discount Rate Scenario	Proj00018-3UG-UGAS	Proj00018-3UG-UGAS	Proj00018	OAKLAND X 1104CR288		3UG	EUP	288	11	Congressional District 12
Proj00019-3UG-ALT1Hybrid Discount Rate Scenario	Proj00019-3UG-ALT1		Proj00019	WOODACRE 1102137662				1032	53	Congressional District 2
Proj00019-3UG-ALT1Societal Discount Rate Scenario	Proj00019-3UG-ALT1		Proj00019	WOODACRE 1102137662				1032	53	Congressional District 2
Proj00019-3UG-ALT1WACC Discount Rate Scenario	Proj00019-3UG-ALT1		Proj00019	WOODACRE 1102137662				1032	53	Congressional District 2
Proj00019-3UG-PASHybrid Discount Rate Scenario	Proj00019-3UG-PAS		Proj00019	WOODACRE 1102137662		3UG	EUP	1029	28	Congressional District 2
Proj00019-3UG-PASSocietal Discount Rate Scenario	Proj00019-3UG-PAS		Proj00019	WOODACRE 1102137662		3UG	EUP	1029	28	Congressional District 2
Proj00019-3UG-PASWACC Discount Rate Scenario	Proj00019-3UG-PAS		Proj00019	WOODACRE 1102137662		3UG	EUP	1029	28	Congressional District 2
Proj00019-3UG-UGASHybrid Discount Rate Scenario	Proj00019-3UG-UGAS	Proj00019-3UG-UGAS	Proj00019	WOODACRE 1102137662		3UG	EUP	1029	28	Congressional District 2
Proj00019-3UG-UGASSocietal Discount Rate Scenario	Proj00019-3UG-UGAS	Proj00019-3UG-UGAS	Proj00019	WOODACRE 1102137662		3UG	EUP	1029	28	Congressional District 2
Proj00019-3UG-UGASWACC Discount Rate Scenario	Proj00019-3UG-UGAS	Proj00019-3UG-UGAS	Proj00019	WOODACRE 1102137662		3UG	EUP	1029	28	Congressional District 2
Proj00020-3UG-ALT1Hybrid Discount Rate Scenario	Proj00020-3UG-ALT1		Proj00020	CAMP EVERS 2105102941				190	8	Congressional District 19
Proj00020-3UG-ALT1Societal Discount Rate Scenario	Proj00020-3UG-ALT1		Proj00020	CAMP EVERS 2105102941				190	8	Congressional District 19
Proj00020-3UG-ALT1WACC Discount Rate Scenario	Proj00020-3UG-ALT1		Proj00020	CAMP EVERS 2105102941				190	8	Congressional District 19
Proj00020-3UG-PASHybrid Discount Rate Scenario	Proj00020-3UG-PAS		Proj00020	CAMP EVERS 2105102941		3UG	EUP	185	8	Congressional District 19
Proj00020-3UG-PASSocietal Discount Rate Scenario	Proj00020-3UG-PAS		Proj00020	CAMP EVERS 2105102941		3UG	EUP	185	8	Congressional District 19
Proj00020-3UG-PASWACC Discount Rate Scenario	Proj00020-3UG-PAS		Proj00020	CAMP EVERS 2105102941		3UG	EUP	185	8	Congressional District 19
Proj00020-3UG-UGASHybrid Discount Rate Scenario	Proj00020-3UG-UGAS	Proj00020-3UG-UGAS	Proj00020	CAMP EVERS 2105102941		3UG	EUP	185	8	Congressional District 19
Proj00020-3UG-UGASSocietal Discount Rate Scenario	Proj00020-3UG-UGAS	Proj00020-3UG-UGAS	Proj00020	CAMP EVERS 2105102941		3UG	EUP	185	8	Congressional District 19
Proj00020-3UG-UGASWACC Discount Rate Scenario	Proj00020-3UG-UGAS	Proj00020-3UG-UGAS	Proj00020	CAMP EVERS 2105102941		3UG	EUP	185	8	Congressional District 19
Proj00021-3UG-ALT1Hybrid Discount Rate Scenario	Proj00021-3UG-ALT1		Proj00021	STILLWATER 11021466				429	23	Congressional District 1
Proj00021-3UG-ALT1Societal Discount Rate Scenario	Proj00021-3UG-ALT1		Proj00021	STILLWATER 11021466				429	23	Congressional District 1
Proj00021-3UG-ALT1WACC Discount Rate Scenario	Proj00021-3UG-ALT1		Proj00021	STILLWATER 11021466				429	23	Congressional District 1
Proj00021-3UG-PASHybrid Discount Rate Scenario	Proj00021-3UG-PAS		Proj00021	STILLWATER 11021466		3UG	EUP	384	20	Congressional District 1
Proj00021-3UG-PASSocietal Discount Rate Scenario	Proj00021-3UG-PAS		Proj00021	STILLWATER 11021466		3UG	EUP	384	20	Congressional District 1
Proj00021-3UG-PASWACC Discount Rate Scenario	Proj00021-3UG-PAS		Proj00021	STILLWATER 11021466		3UG	EUP	384	20	Congressional District 1
Proj00021-3UG-UGASHybrid Discount Rate Scenario	Proj00021-3UG-UGAS	Proj00021-3UG-UGAS	Proj00021	STILLWATER 11021466		3UG	EUP	384	20	Congressional District 1
Proj00021-3UG-UGASSocietal Discount Rate Scenario	Proj00021-3UG-UGAS	Proj00021-3UG-UGAS	Proj00021	STILLWATER 11021466		3UG	EUP	384	20	Congressional District 1
Proj00021-3UG-UGASWACC Discount Rate Scenario	Proj00021-3UG-UGAS	Proj00021-3UG-UGAS	Proj00021	STILLWATER 11021466		3UG	EUP	384	20	Congressional District 1
Proj00022-3UG-ALT1Hybrid Discount Rate Scenario	Proj00022-3UG-ALT1		Proj00022	KONOCTI 1102714370				112	6	Congressional District 4
Proj00022-3UG-ALT1Societal Discount Rate Scenario	Proj00022-3UG-ALT1		Proj00022	KONOCTI 1102714370				112	6	Congressional District 4
Proj00022-3UG-ALT1WACC Discount Rate Scenario	Proj00022-3UG-ALT1		Proj00022	KONOCTI 1102714370				112	6	Congressional District 4
Proj00022-3UG-PASHybrid Discount Rate Scenario	Proj00022-3UG-PAS		Proj00022	KONOCTI 1102714370		08W, 3UG	EUP, GRC	90	5	Congressional District 4
Proj00022-3UG-PASSocietal Discount Rate Scenario	Proj00022-3UG-PAS		Proj00022	KONOCTI 1102714370		08W, 3UG	EUP, GRC	90	5	Congressional District 4
Proj00022-3UG-PASWACC Discount Rate Scenario	Proj00022-3UG-PAS		Proj00022	KONOCTI 1102714370		08W, 3UG	EUP, GRC	90	5	Congressional District 4
Proj00022-3UG-UGASHybrid Discount Rate Scenario	Proj00022-3UG-UGAS	Proj00022-3UG-UGAS	Proj00022	KONOCTI 1102714370		3UG	EUP	0	0	Congressional District 4
Proj00022-3UG-UGASSocietal Discount Rate Scenario	Proj00022-3UG-UGAS	Proj00022-3UG-UGAS	Proj00022	KONOCTI 1102714370		3UG	EUP	0	0	Congressional District 4
Proj00022-3UG-UGASWACC Discount Rate Scenario	Proj00022-3UG-UGAS	Proj00022-3UG-UGAS	Proj00022	KONOCTI 1102714370		3UG	EUP	0	0	Congressional District 4
Proj00023-3UG-ALT1Hybrid Discount Rate Scenario	Proj00023-3UG-ALT1		Proj00023	PLACERVILLE 21069712				214	8	Congressional District 3
Proj00023-3UG-ALT1Societal Discount Rate Scenario	Proj00023-3UG-ALT1		Proj00023	PLACERVILLE 21069712				214	8	Congressional District 3
Proj00023-3UG-ALT1WACC Discount Rate Scenario	Proj00023-3UG-ALT1		Proj00023	PLACERVILLE 21069712				214	8	Congressional District 3
Proj00023-3UG-PASHybrid Discount Rate Scenario	Proj00023-3UG-PAS		Proj00023	PLACERVILLE 21069712		08W, 3UG	EUP, GRC	204	8	Congressional District 3
Proj00023-3UG-PASSocietal Discount Rate Scenario	Proj00023-3UG-PAS		Proj00023	PLACERVILLE 21069712		08W, 3UG	EUP, GRC	204	8	Congressional District 3
Proj00023-3UG-PASWACC Discount Rate Scenario	Proj00023-3UG-PAS		Proj00023	PLACERVILLE 21069712		08W, 3UG	EUP, GRC	204	8	Congressional District 3
Proj00023-3UG-UGASHybrid Discount Rate Scenario	Proj00023-3UG-UGAS	Proj00023-3UG-UGAS	Proj00023	PLACERVILLE 21069712		3UG	EUP	198	8	Congressional District 3
Proj00023-3UG-UGASSocietal Discount Rate Scenario	Proj00023-3UG-UGAS	Proj00023-3UG-UGAS	Proj00023	PLACERVILLE 21069712		3UG	EUP	198	8	Congressional District 3
Proj00023-3UG-UGASWACC Discount Rate Scenario	Proj00023-3UG-UGAS	Proj00023-3UG-UGAS	Proj00023	PLACERVILLE 21069712		3UG	EUP	198	8	Congressional District 3
Proj00024-3UG-ALT1Hybrid Discount Rate Scenario	Proj00024-3UG-ALT1		Proj00024	MENLO 1102628458				14	5	Congressional District 16
Proj00024-3UG-ALT1Societal Discount Rate Scenario	Proj00024-3UG-ALT1		Proj00024	MENLO 1102628458				14	5	Congressional District 16
Proj00024-3UG-ALT1WACC Discount Rate Scenario	Proj00024-3UG-ALT1		Proj00024	MENLO 1102628458				14	5	Congressional District 16
Proj00024-3UG-PASHybrid Discount Rate Scenario	Proj00024-3UG-PAS		Proj00024	MENLO 1102628458		3UG	EUP	3	0	Congressional District 16
Proj00024-3UG-PASSocietal Discount Rate Scenario	Proj00024-3UG-PAS		Proj00024	MENLO 1102628458		3UG	EUP	3	0	Congressional District 16
Proj00024-3UG-PASWACC Discount Rate Scenario	Proj00024-3UG-PAS		Proj00024	MENLO 1102628458		3UG	EUP	3	0	Congressional District 16
Proj00024-3UG-UGASHybrid Discount Rate Scenario	Proj00024-3UG-UGAS	Proj00024-3UG-UGAS	Proj00024	MENLO 1102628458		3UG	EUP	3	0	Congressional District 16
Proj00024-3UG-UGASSocietal Discount Rate Scenario	Proj00024-3UG-UGAS	Proj00024-3UG-UGAS	Proj00024	MENLO 1102628458		3UG	EUP	3	0	Congressional District 16
Proj00024-3UG-UGASWACC Discount Rate Scenario	Proj00024-3UG-UGAS	Proj00024-3UG-UGAS	Proj00024	MENLO 1102628458		3UG	EUP	3	0	Congressional District 16
Proj00025-3UG-ALT1Hybrid Discount Rate Scenario	Proj00025-3UG-ALT1		Proj00025	ALTO 11221260				396	11	Congressional District 2
Proj00025-3UG-ALT1Societal Discount Rate Scenario	Proj00025-3UG-ALT1		Proj00025	ALTO 11221260				396	11	Congressional District 2
Proj00025-3UG-ALT1WACC Discount Rate Scenario	Proj00025-3UG-ALT1		Proj00025	ALTO 11221260				396	11	Congressional District 2
Proj00025-3UG-PASHybrid Discount Rate Scenario	Proj00025-3UG-PAS		Proj00025	ALTO 11221260		3UG	EUP	362	11	Congressional District 2
Proj00025-3UG-PASSocietal Discount Rate Scenario	Proj00025-3UG-PAS		Proj00025	ALTO 11221260		3UG	EUP	362	11	Congressional District 2
Proj00025-3UG-PASWACC Discount Rate Scenario	Proj00025-3UG-PAS		Proj00025	ALTO 11221260		3UG	EUP	362	11	Congressional District 2
Proj00025-3UG-UGASHybrid Discount Rate Scenario	Proj00025-3UG-UGAS	Proj00025-3UG-UGAS	Proj00025	ALTO 11221260		3UG	EUP	362	11	Congressional District 2
Proj00025-3UG-UGASSocietal Discount Rate Scenario	Proj00025-3UG-UGAS	Proj00025-3UG-UGAS	Proj00025	ALTO 11221260		3UG	EUP	362	11	Congressional District 2
Proj00025-3UG-UGASWACC Discount Rate Scenario	Proj00025-3UG-UGAS	Proj00025-3UG-UGAS	Proj00025	ALTO 11221260		3UG	EUP	362	11	Congressional District 2
Proj00026-3UG-ALT1Hybrid Discount Rate Scenario	Proj00026-3UG-ALT1		Proj00026	CAMP EVERS 2105534190				102	2	Congressional District 19
Proj00026-3UG-ALT1Societal Discount Rate Scenario	Proj00026-3UG-ALT1		Proj00026	CAMP EVERS 2105534190				102	2	Congressional District 19
Proj00026-3UG-ALT1WACC Discount Rate Scenario	Proj00026-3UG-ALT1		Proj00026	CAMP EVERS 2105534190				102	2	Congressional District 19
Proj00026-3UG-PASHybrid Discount Rate Scenario	Proj00026-3UG-PAS		Proj00026	CAMP EVERS 2105534190		3UG	EUP	105	2	Congressional District 19
Proj00026-3UG-PASSocietal Discount Rate Scenario	Proj00026-3UG-PAS		Proj00026	CAMP EVERS 2105534190		3UG	EUP	105	2	Congressional District 19
Proj00026-3UG-PASWACC Discount Rate Scenario	Proj00026-3UG-PAS		Proj00026	CAMP EVERS 2105534190		3UG	EUP	105	2	Congressional District 19
Proj00026-3UG-UGASHybrid Discount Rate Scenario	Proj00026-3UG-UGAS	Proj00026-3UG-UGAS	Proj00026	CAMP EVERS 2105534190		3UG	EUP	105	2	Congressional District 19
Proj00026-3UG-UGASSocietal Discount Rate Scenario	Proj00026-3UG-UGAS	Proj00026-3UG-UGAS	Proj00026	CAMP EVERS 2105534190		3UG	EUP	105	2	Congressional District 19
Proj00026-3UG-UGASWACC Discount Rate Scenario	Proj00026-3UG-UGAS	Proj00026-3UG-UGAS	Proj00026	CAMP EVERS 2105534190		3UG	EUP	105	2	Congressional District 19
Proj00027-3UG-ALT1Hybrid Discount Rate Scenario	Proj00027-3UG-ALT1		Proj00027	CORTINA 1101302192				25	34	Congressional District 1
Proj00027-3UG-ALT1Societal Discount Rate Scenario	Proj00027-3UG-ALT1		Proj00027	CORTINA 1101302192				25	34	Congressional District 1
Proj00027-3UG-ALT1WACC Discount Rate Scenario	Proj00027-3UG-ALT1		Proj00027	CORTINA 1101302192				25	34	Congressional District 1
Proj00027-3UG-PASHybrid Discount Rate Scenario	Proj00027-3UG-PAS		Proj00027	CORTINA 1101302192		3UG	EUP	3	4	Congressional District 1
Proj00027-3UG-PASSocietal Discount Rate Scenario	Proj00027-3UG-PAS		Proj00027	CORTINA 1101302192		3UG	EUP	3	4	Congressional District 1
Proj00027-3UG-PASWACC Discount Rate Scenario	Proj00027-3UG-PAS		Proj00027	CORTINA 1101302192		3UG	EUP	3	4	Congressional District 1
Proj00027-3UG-UGASHybrid Discount Rate Scenario	Proj00027-3UG-UGAS	Proj00027-3UG-UGAS	Proj00027	CORTINA 1101302192		3UG	EUP	3	4	Congressional District 1
Proj00027-3UG-UGASSocietal Discount Rate Scenario	Proj00027-3UG-UGAS	Proj00027-3UG-UGAS	Proj00027	CORTINA 1101302192		3UG	EUP	3	4	Congressional District 1
Proj00027-3UG-UGASWACC Discount Rate Scenario	Proj00027-3UG-UGAS	Proj00027-3UG-UGAS	Proj00027	CORTINA 1101302192		3UG	EUP	3	4	Congressional District 1
Proj00028-3UG-ALT1Hybrid Discount Rate Scenario	Proj00028-3UG-ALT1		Proj00028	VOLTA 1102CB				8	3	Congressional District 1
Proj00028-3UG-ALT1Societal Discount Rate Scenario	Proj00028-3UG-ALT1		Proj00028	VOLTA 1102CB				8	3	Congressional District 1
Proj00028-3UG-ALT1WACC Discount Rate Scenario	Proj00028-3UG-ALT1		Proj00028	VOLTA 1102CB				8	3	Congressional District 1
Proj00028-3UG-PASHybrid Discount Rate Scenario	Proj00028-3UG-PAS		Proj00028	VOLTA 1102CB		08W, 3UG	EUP, GRC	8	3	Congressional District 1
Proj00028-3UG-PASSocietal Discount Rate Scenario	Proj00028-3UG-PAS		Proj00028	VOLTA 1102CB		08W, 3UG	EUP, GRC	8	3	Congressional District 1
Proj00028-3UG-PASWACC Discount Rate Scenario	Proj00028-3UG-PAS		Proj00028	VOLTA 1102CB		08W, 3UG	EUP, GRC	8	3	Congressional District 1
Proj00028-3UG-UGASHybrid Discount Rate Scenario	Proj00028-3UG-UGAS	Proj00028-3UG-UGAS	Proj00028	VOLTA 1102CB		3UG	EUP	8	3	Congressional District 1
Proj00028-3UG-UGASSocietal Discount Rate Scenario	Proj00028-3UG-UGAS	Proj00028-3UG-UGAS	Proj00028	VOLTA 1102CB		3UG	EUP	8	3	Congressional District 1
Proj00028-3UG-UGASWACC Discount Rate Scenario	Proj00028-3UG-UGAS	Proj00028-3UG-UGAS	Proj00028	VOLTA 1102CB		3UG	EUP	8	3	Congressional District 1

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Electrical Undergrounding Program
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sorter	tranche_level	asset_system_list	total_circuit_miles	total_circuit_miles_ug	risk_ranking	scoping_date	start_date	mitigation_type	undergrounding_mitigation_justification1
Proj00001-3UG-ALT1Hybrid Discount Rate Scenario	16	PUEBLO 21031970, 213 support structure, 1 capacitor bank, 17 fuse, 12 switch, 69 transformer	3.135967006		329	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00001-3UG-ALT1Societal Discount Rate Scenario	16	PUEBLO 21031970, 213 support structure, 1 capacitor bank, 17 fuse, 12 switch, 69 transformer	3.135967006		329	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00001-3UG-ALT1WACC Discount Rate Scenario	16	PUEBLO 21031970, 213 support structure, 1 capacitor bank, 17 fuse, 12 switch, 69 transformer	3.135967006		329	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00001-3UG-PASHybrid Discount Rate Scenario	16	PUEBLO 21031970, 213 support structure, 1 capacitor bank, 17 fuse, 12 switch, 69 transformer	3.135967006		329	8/20/2026		Undergrounding	Overall Utility Risk
Proj00001-3UG-PASSocietal Discount Rate Scenario	16	PUEBLO 21031970, 213 support structure, 1 capacitor bank, 17 fuse, 12 switch, 69 transformer	3.135967006		329	8/20/2026		Undergrounding	Overall Utility Risk
Proj00001-3UG-PASWACC Discount Rate Scenario	16	PUEBLO 21031970, 213 support structure, 1 capacitor bank, 17 fuse, 12 switch, 69 transformer	3.135967006		329	8/20/2026		Undergrounding	Overall Utility Risk
Proj00001-3UG-UGASHybrid Discount Rate Scenario	16	PUEBLO 21031970, 213 support structure, 1 capacitor bank, 17 fuse, 12 switch, 69 transformer	3.14	3.63	329	8/20/2026	1/10/2028	Undergrounding	Overall Utility Risk
Proj00001-3UG-UGASSocietal Discount Rate Scenario	16	PUEBLO 21031970, 213 support structure, 1 capacitor bank, 17 fuse, 12 switch, 69 transformer	3.14	3.63	329	8/20/2026	1/10/2028	Undergrounding	Overall Utility Risk
Proj00001-3UG-UGASWACC Discount Rate Scenario	16	PUEBLO 21031970, 213 support structure, 1 capacitor bank, 17 fuse, 12 switch, 69 transformer	3.14	3.63	329	8/20/2026	1/10/2028	Undergrounding	Overall Utility Risk
Proj00002-3UG-ALT1Hybrid Discount Rate Scenario	16	MIWUK 1701CB, 191 support structure, 0 capacitor bank, 8 fuse, 10 switch, 97 transformer	4.561286176	24.03	669	8/20/2026	2/16/2028	Overhead Hardening	Overall Utility Risk
Proj00002-3UG-ALT1Societal Discount Rate Scenario	16	MIWUK 1701CB, 191 support structure, 0 capacitor bank, 8 fuse, 10 switch, 97 transformer	4.561286176	24.03	669	8/20/2026	2/16/2028	Overhead Hardening	Overall Utility Risk
Proj00002-3UG-ALT1WACC Discount Rate Scenario	16	MIWUK 1701CB, 191 support structure, 0 capacitor bank, 8 fuse, 10 switch, 97 transformer	4.561286176	24.03	669	8/20/2026	2/16/2028	Overhead Hardening	Overall Utility Risk
Proj00002-3UG-PASHybrid Discount Rate Scenario	16	MIWUK 1701CB, 191 support structure, 0 capacitor bank, 8 fuse, 10 switch, 97 transformer	4.561286176	3.63	669	8/20/2026	1/10/2028	Undergrounding	Overall Utility Risk
Proj00002-3UG-PASSocietal Discount Rate Scenario	16	MIWUK 1701CB, 191 support structure, 0 capacitor bank, 8 fuse, 10 switch, 97 transformer	4.561286176	3.63	669	8/20/2026	1/10/2028	Undergrounding	Overall Utility Risk
Proj00002-3UG-PASWACC Discount Rate Scenario	16	MIWUK 1701CB, 191 support structure, 0 capacitor bank, 8 fuse, 10 switch, 97 transformer	4.561286176	3.63	669	8/20/2026	1/10/2028	Undergrounding	Overall Utility Risk
Proj00002-3UG-UGASHybrid Discount Rate Scenario	16	MIWUK 1701CB, 191 support structure, 0 capacitor bank, 8 fuse, 10 switch, 97 transformer	2.57	3.53	669	8/20/2026	2/2/2028	Undergrounding	Overall Utility Risk
Proj00002-3UG-UGASSocietal Discount Rate Scenario	16	MIWUK 1701CB, 191 support structure, 0 capacitor bank, 8 fuse, 10 switch, 97 transformer	2.57	3.53	669	8/20/2026	2/2/2028	Undergrounding	Overall Utility Risk
Proj00002-3UG-UGASWACC Discount Rate Scenario	16	MIWUK 1701CB, 191 support structure, 0 capacitor bank, 8 fuse, 10 switch, 97 transformer	2.57	3.53	669	8/20/2026	2/2/2028	Undergrounding	Overall Utility Risk
Proj00003-3UG-ALT1Hybrid Discount Rate Scenario	11	FORESTHILL 1101CB, 347 support structure, 1 capacitor bank, 26 fuse, 11 switch, 115 transformer	9.01747145		549	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00003-3UG-ALT1Societal Discount Rate Scenario	11	FORESTHILL 1101CB, 347 support structure, 1 capacitor bank, 26 fuse, 11 switch, 115 transformer	9.01747145		549	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00003-3UG-ALT1WACC Discount Rate Scenario	11	FORESTHILL 1101CB, 347 support structure, 1 capacitor bank, 26 fuse, 11 switch, 115 transformer	9.01747145		549	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00003-3UG-PASHybrid Discount Rate Scenario	11	FORESTHILL 1101CB, 347 support structure, 1 capacitor bank, 26 fuse, 11 switch, 115 transformer	9.01747145		549	8/20/2026		Undergrounding	Overall Utility Risk
Proj00003-3UG-PASSocietal Discount Rate Scenario	11	FORESTHILL 1101CB, 347 support structure, 1 capacitor bank, 26 fuse, 11 switch, 115 transformer	9.01747145		549	8/20/2026		Undergrounding	Overall Utility Risk
Proj00003-3UG-PASWACC Discount Rate Scenario	11	FORESTHILL 1101CB, 347 support structure, 1 capacitor bank, 26 fuse, 11 switch, 115 transformer	9.01747145		549	8/20/2026		Undergrounding	Overall Utility Risk
Proj00003-3UG-UGASHybrid Discount Rate Scenario	11	FORESTHILL 1101CB, 347 support structure, 1 capacitor bank, 26 fuse, 11 switch, 115 transformer	8.37	11.73	549	8/20/2026	6/24/2027	Undergrounding	Overall Utility Risk
Proj00003-3UG-UGASSocietal Discount Rate Scenario	11	FORESTHILL 1101CB, 347 support structure, 1 capacitor bank, 26 fuse, 11 switch, 115 transformer	8.37	11.73	549	8/20/2026	6/24/2027	Undergrounding	Overall Utility Risk
Proj00003-3UG-UGASWACC Discount Rate Scenario	11	FORESTHILL 1101CB, 347 support structure, 1 capacitor bank, 26 fuse, 11 switch, 115 transformer	8.37	11.73	549	8/20/2026	6/24/2027	Undergrounding	Overall Utility Risk
Proj00004-3UG-ALT1Hybrid Discount Rate Scenario	2	DUNBAR 1103799422, 12 support structure, 0 capacitor bank, 0 fuse, 2 switch, 6 transformer	0.432857929	1.86	1097	8/20/2026	6/22/2027	Overhead Hardening	Overall Utility Risk
Proj00004-3UG-ALT1Societal Discount Rate Scenario	2	DUNBAR 1103799422, 12 support structure, 0 capacitor bank, 0 fuse, 2 switch, 6 transformer	0.432857929	1.86	1097	8/20/2026	6/22/2027	Overhead Hardening	Overall Utility Risk
Proj00004-3UG-ALT1WACC Discount Rate Scenario	2	DUNBAR 1103799422, 12 support structure, 0 capacitor bank, 0 fuse, 2 switch, 6 transformer	0.432857929	1.86	1097	8/20/2026	6/22/2027	Overhead Hardening	Overall Utility Risk
Proj00004-3UG-PASHybrid Discount Rate Scenario	2	DUNBAR 1103799422, 12 support structure, 0 capacitor bank, 0 fuse, 2 switch, 6 transformer	0.432857929	3.53	1097	8/20/2026	2/2/2028	Undergrounding	Overall Utility Risk
Proj00004-3UG-PASSocietal Discount Rate Scenario	2	DUNBAR 1103799422, 12 support structure, 0 capacitor bank, 0 fuse, 2 switch, 6 transformer	0.432857929	3.53	1097	8/20/2026	2/2/2028	Undergrounding	Overall Utility Risk
Proj00004-3UG-PASWACC Discount Rate Scenario	2	DUNBAR 1103799422, 12 support structure, 0 capacitor bank, 0 fuse, 2 switch, 6 transformer	0.432857929	3.53	1097	8/20/2026	2/2/2028	Undergrounding	Overall Utility Risk
Proj00004-3UG-UGASHybrid Discount Rate Scenario	2	DUNBAR 1103799422, 12 support structure, 0 capacitor bank, 0 fuse, 2 switch, 6 transformer	0.43	0.48	1097	8/20/2026	5/20/2028	Undergrounding	Overall Utility Risk
Proj00004-3UG-UGASSocietal Discount Rate Scenario	2	DUNBAR 1103799422, 12 support structure, 0 capacitor bank, 0 fuse, 2 switch, 6 transformer	0.43	0.48	1097	8/20/2026	5/20/2028	Undergrounding	Overall Utility Risk
Proj00004-3UG-UGASWACC Discount Rate Scenario	2	DUNBAR 1103799422, 12 support structure, 0 capacitor bank, 0 fuse, 2 switch, 6 transformer	0.43	0.48	1097	8/20/2026	5/20/2028	Undergrounding	Overall Utility Risk
Proj00005-3UG-ALT1Hybrid Discount Rate Scenario	9	FORESTHILL 11011820, 128 support structure, 0 capacitor bank, 5 fuse, 8 switch, 26 transformer	5.670887728		2122	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00005-3UG-ALT1Societal Discount Rate Scenario	9	FORESTHILL 11011820, 128 support structure, 0 capacitor bank, 5 fuse, 8 switch, 26 transformer	5.670887728		2122	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00005-3UG-ALT1WACC Discount Rate Scenario	9	FORESTHILL 11011820, 128 support structure, 0 capacitor bank, 5 fuse, 8 switch, 26 transformer	5.670887728		2122	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00005-3UG-PASHybrid Discount Rate Scenario	9	FORESTHILL 11011820, 128 support structure, 0 capacitor bank, 5 fuse, 8 switch, 26 transformer	5.670887728		2122	8/20/2026		Undergrounding	Overall Utility Risk
Proj00005-3UG-PASSocietal Discount Rate Scenario	9	FORESTHILL 11011820, 128 support structure, 0 capacitor bank, 5 fuse, 8 switch, 26 transformer	5.670887728		2122	8/20/2026		Undergrounding	Overall Utility Risk
Proj00005-3UG-PASWACC Discount Rate Scenario	9	FORESTHILL 11011820, 128 support structure, 0 capacitor bank, 5 fuse, 8 switch, 26 transformer	5.670887728		2122	8/20/2026		Undergrounding	Overall Utility Risk
Proj00005-3UG-UGASHybrid Discount Rate Scenario	9	FORESTHILL 11011820, 128 support structure, 0 capacitor bank, 5 fuse, 8 switch, 26 transformer	5.67	6.69	2122	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk
Proj00005-3UG-UGASSocietal Discount Rate Scenario	9	FORESTHILL 11011820, 128 support structure, 0 capacitor bank, 5 fuse, 8 switch, 26 transformer	5.67	6.69	2122	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk
Proj00005-3UG-UGASWACC Discount Rate Scenario	9	FORESTHILL 11011820, 128 support structure, 0 capacitor bank, 5 fuse, 8 switch, 26 transformer	5.67	6.69	2122	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk
Proj00006-3UG-ALT1Hybrid Discount Rate Scenario	11	GIRVAN 1101CB, 96 support structure, 1 capacitor bank, 6 fuse, 8 switch, 15 transformer	1.233338092	3.72	364	8/20/2026	4/10/2028	Overhead Hardening	Overall Utility Risk
Proj00006-3UG-ALT1Societal Discount Rate Scenario	11	GIRVAN 1101CB, 96 support structure, 1 capacitor bank, 6 fuse, 8 switch, 15 transformer	1.233338092	3.72	364	8/20/2026	4/10/2028	Overhead Hardening	Overall Utility Risk
Proj00006-3UG-ALT1WACC Discount Rate Scenario	11	GIRVAN 1101CB, 96 support structure, 1 capacitor bank, 6 fuse, 8 switch, 15 transformer	1.233338092	3.72	364	8/20/2026	4/10/2028	Overhead Hardening	Overall Utility Risk
Proj00006-3UG-PASHybrid Discount Rate Scenario	11	GIRVAN 1101CB, 96 support structure, 1 capacitor bank, 6 fuse, 8 switch, 15 transformer	1.233338092		364	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00006-3UG-PASSocietal Discount Rate Scenario	11	GIRVAN 1101CB, 96 support structure, 1 capacitor bank, 6 fuse, 8 switch, 15 transformer	1.233338092		364	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00006-3UG-PASWACC Discount Rate Scenario	11	GIRVAN 1101CB, 96 support structure, 1 capacitor bank, 6 fuse, 8 switch, 15 transformer	1.233338092		364	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00006-3UG-UGASHybrid Discount Rate Scenario	11	GIRVAN 1101CB, 96 support structure, 1 capacitor bank, 6 fuse, 8 switch, 15 transformer	0.52	0.58	364	8/20/2026	12/10/2027	Undergrounding	Overall Utility Risk
Proj00006-3UG-UGASSocietal Discount Rate Scenario	11	GIRVAN 1101CB, 96 support structure, 1 capacitor bank, 6 fuse, 8 switch, 15 transformer	0.52	0.58	364	8/20/2026	12/10/2027	Undergrounding	Overall Utility Risk
Proj00006-3UG-UGASWACC Discount Rate Scenario	11	GIRVAN 1101CB, 96 support structure, 1 capacitor bank, 6 fuse, 8 switch, 15 transformer	0.52	0.58	364	8/20/2026	12/10/2027	Undergrounding	Overall Utility Risk
Proj00007-3UG-ALT1Hybrid Discount Rate Scenario	5	LOS GATOS 1107812664, 140 support structure, 0 capacitor bank, 18 fuse, 7 switch, 40 transformer	8.187804863		1373	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00007-3UG-ALT1Societal Discount Rate Scenario	5	LOS GATOS 1107812664, 140 support structure, 0 capacitor bank, 18 fuse, 7 switch, 40 transformer	8.187804863		1373	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00007-3UG-ALT1WACC Discount Rate Scenario	5	LOS GATOS 1107812664, 140 support structure, 0 capacitor bank, 18 fuse, 7 switch, 40 transformer	8.187804863		1373	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00007-3UG-PASHybrid Discount Rate Scenario	5	LOS GATOS 1107812664, 140 support structure, 0 capacitor bank, 18 fuse, 7 switch, 40 transformer	8.187804863	9.12	1373	8/20/2026	3/7/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00007-3UG-PASSocietal Discount Rate Scenario	5	LOS GATOS 1107812664, 140 support structure, 0 capacitor bank, 18 fuse, 7 switch, 40 transformer	8.187804863	9.12	1373	8/20/2026	3/7/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00007-3UG-PASWACC Discount Rate Scenario	5	LOS GATOS 1107812664, 140 support structure, 0 capacitor bank, 18 fuse, 7 switch, 40 transformer	8.187804863	9.12	1373	8/20/2026	3/7/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00007-3UG-UGASHybrid Discount Rate Scenario	5	LOS GATOS 1107812664, 140 support structure, 0 capacitor bank, 18 fuse, 7 switch, 40 transformer	1.16	1.08	1373	8/20/2026	6/5/2028	Undergrounding	Overall Utility Risk
Proj00007-3UG-UGASSocietal Discount Rate Scenario	5	LOS GATOS 1107812664, 140 support structure, 0 capacitor bank, 18 fuse, 7 switch, 40 transformer	1.16	1.08	1373	8/20/2026	6/5/2028	Undergrounding	Overall Utility Risk
Proj00007-3UG-UGASWACC Discount Rate Scenario	5	LOS GATOS 1107812664, 140 support structure, 0 capacitor bank, 18 fuse, 7 switch, 40 transformer	1.16	1.08	1373	8/20/2026	6/5/2028	Undergrounding	Overall Utility Risk
Proj00008-3UG-ALT1Hybrid Discount Rate Scenario	5	GEYSERVILLE 1102904170, 279 support structure, 0 capacitor bank, 9 fuse, 1 switch, 75 transformer	21.17834497	2.46	1064	8/20/2026	5/9/2028	Overhead Hardening	Overall Utility Risk
Proj00008-3UG-ALT1Societal Discount Rate Scenario	5	GEYSERVILLE 1102904170, 279 support structure, 0 capacitor bank, 9 fuse, 1 switch, 75 transformer	21.17834497	2.46	1064	8/20/2026	5/9/2028	Overhead Hardening	Overall Utility Risk
Proj00008-3UG-ALT1WACC Discount Rate Scenario	5	GEYSERVILLE 1102904170, 279 support structure, 0 capacitor bank, 9 fuse, 1 switch, 75 transformer	21.17834497	2.46	1064	8/20/2026	5/9/2028	Overhead Hardening	Overall Utility Risk
Proj00008-3UG-PASHybrid Discount Rate Scenario	5	GEYSERVILLE 1102904170, 279 support structure, 0 capacitor bank, 9 fuse, 1 switch, 75 transformer	21.17834497		1064	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00008-3UG-PASSocietal Discount Rate Scenario	5	GEYSERVILLE 1102904170, 279 support structure, 0 capacitor bank, 9 fuse, 1 switch, 75 transformer	21.17834497		1064	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00008-3UG-PASWACC Discount Rate Scenario	5	GEYSERVILLE 1102904170, 279 support structure, 0 capacitor bank, 9 fuse, 1 switch, 75 transformer	21.17834497		1064	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00008-3UG-UGASHybrid Discount Rate Scenario	5	GEYSERVILLE 1102904170, 279 support structure, 0 capacitor bank, 9 fuse, 1 switch, 75 transformer	8.76	13.54	1064	8/20/2026	2/17/2028	Undergrounding	Overall Utility Risk, Ignition Consequence
Proj00008-3UG-UGASSocietal Discount Rate Scenario	5	GEYSERVILLE 1102904170, 279 support structure, 0 capacitor bank, 9 fuse, 1 switch, 75 transformer	8.76	13.54	1064	8/20/2026	2/17/2028	Undergrounding	Overall Utility Risk, Ignition Consequence
Proj00008-3UG-UGASWACC Discount Rate Scenario	5	GEYSERVILLE 1102904170, 279 support structure, 0 capacitor bank, 9 fuse, 1 switch, 75 transformer	8.76	13.54	1064	8/20/2026	2/17/2028	Undergrounding	Overall Utility Risk, Ignition Consequence
Proj00009-3UG-ALT1Hybrid Discount Rate Scenario	16	ALTO 1124430, 379 support structure, 1 capacitor bank, 24 fuse, 5 switch, 141 transformer	7.051437886		957	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00009-3UG-ALT1Societal Discount Rate Scenario	16	ALTO 1124430, 379 support structure, 1 capacitor bank, 24 fuse, 5 switch, 141 transformer	7.051437886		957	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00009-3UG-ALT1WACC Discount Rate Scenario	16	ALTO 1124430, 379 support structure, 1 capacitor bank, 24 fuse, 5 switch, 141 transformer	7.051437886		957	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00009-3UG-PASHybrid Discount Rate Scenario	16	ALTO 1124430, 379 support structure, 1 capacitor bank, 24 fuse, 5 switch, 141 transformer	7.051437886	8.25	957	8/20/2026	1/18/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00009-3UG-PASSocietal Discount Rate Scenario	16	ALTO 1124430, 379 support structure, 1 capacitor bank, 24 fuse, 5 switch, 141 transformer	7.051437886	8.25	957	8/20/2026	1/18/2028	Overhead Hardening, Undergrounding	Overall Utility Risk

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sorter	tranche_level	asset_system_list	total_circuit_miles	total_circuit_miles_ug	risk_ranking	scoping_date	start_date	mitigation_type	undergrounding_mitigation_justification1
Proj00009-3UG-PASWACC Discount Rate Scenario	16	ALTO 1124430, 379 support structure, 1 capacitor bank, 24 fuse, 5 switch, 141 transformer	7.051437886	8.25	957	8/20/2026	1/18/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00009-3UG-UGASHybrid Discount Rate Scenario	16	ALTO 1124430, 379 support structure, 1 capacitor bank, 24 fuse, 5 switch, 141 transformer	6.53	9.12	957	8/20/2026	3/14/2028	Undergrounding	Overall Utility Risk
Proj00009-3UG-UGASSocietal Discount Rate Scenario	16	ALTO 1124430, 379 support structure, 1 capacitor bank, 24 fuse, 5 switch, 141 transformer	6.53	9.12	957	8/20/2026	3/14/2028	Undergrounding	Overall Utility Risk
Proj00009-3UG-UGASWACC Discount Rate Scenario	16	ALTO 1124430, 379 support structure, 1 capacitor bank, 24 fuse, 5 switch, 141 transformer	6.53	9.12	957	8/20/2026	3/14/2028	Undergrounding	Overall Utility Risk
Proj00010-3UG-ALT1Hybrid Discount Rate Scenario	21	LAURELES 111268454, 445 support structure, 1 capacitor bank, 25 fuse, 9 switch, 157 transformer	7.815626401	11.43	1111	8/20/2026	2/2/2028	Overhead Hardening	Overall Utility Risk
Proj00010-3UG-ALT1Societal Discount Rate Scenario	21	LAURELES 111268454, 445 support structure, 1 capacitor bank, 25 fuse, 9 switch, 157 transformer	7.815626401	11.43	1111	8/20/2026	2/2/2028	Overhead Hardening	Overall Utility Risk
Proj00010-3UG-ALT1WACC Discount Rate Scenario	21	LAURELES 111268454, 445 support structure, 1 capacitor bank, 25 fuse, 9 switch, 157 transformer	7.815626401	11.43	1111	8/20/2026	2/2/2028	Overhead Hardening	Overall Utility Risk
Proj00010-3UG-PASHybrid Discount Rate Scenario	21	LAURELES 111268454, 445 support structure, 1 capacitor bank, 25 fuse, 9 switch, 157 transformer	7.815626401		1111	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00010-3UG-PASSocietal Discount Rate Scenario	21	LAURELES 111268454, 445 support structure, 1 capacitor bank, 25 fuse, 9 switch, 157 transformer	7.815626401		1111	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00010-3UG-PASWACC Discount Rate Scenario	21	LAURELES 111268454, 445 support structure, 1 capacitor bank, 25 fuse, 9 switch, 157 transformer	7.815626401		1111	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00010-3UG-UGASHybrid Discount Rate Scenario	21	LAURELES 111268454, 445 support structure, 1 capacitor bank, 25 fuse, 9 switch, 157 transformer	6.66	8.25	1111	8/20/2026	2/28/2028	Undergrounding	Overall Utility Risk
Proj00010-3UG-UGASSocietal Discount Rate Scenario	21	LAURELES 111268454, 445 support structure, 1 capacitor bank, 25 fuse, 9 switch, 157 transformer	6.66	8.25	1111	8/20/2026	2/28/2028	Undergrounding	Overall Utility Risk
Proj00010-3UG-UGASWACC Discount Rate Scenario	21	LAURELES 111268454, 445 support structure, 1 capacitor bank, 25 fuse, 9 switch, 157 transformer	6.66	8.25	1111	8/20/2026	2/28/2028	Undergrounding	Overall Utility Risk
Proj00011-3UG-ALT1Hybrid Discount Rate Scenario	11	EL DORADO PH 2101668674, 352 support structure, 1 capacitor bank, 19 fuse, 12 switch, 150 transformer	9.351369089		466	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00011-3UG-ALT1Societal Discount Rate Scenario	11	EL DORADO PH 2101668674, 352 support structure, 1 capacitor bank, 19 fuse, 12 switch, 150 transformer	9.351369089		466	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00011-3UG-ALT1WACC Discount Rate Scenario	11	EL DORADO PH 2101668674, 352 support structure, 1 capacitor bank, 19 fuse, 12 switch, 150 transformer	9.351369089		466	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00011-3UG-PASHybrid Discount Rate Scenario	11	EL DORADO PH 2101668674, 352 support structure, 1 capacitor bank, 19 fuse, 12 switch, 150 transformer	9.351369089	11.73	466	8/20/2026	6/24/2027	Undergrounding	Overall Utility Risk
Proj00011-3UG-PASSocietal Discount Rate Scenario	11	EL DORADO PH 2101668674, 352 support structure, 1 capacitor bank, 19 fuse, 12 switch, 150 transformer	9.351369089	11.73	466	8/20/2026	6/24/2027	Undergrounding	Overall Utility Risk
Proj00011-3UG-PASWACC Discount Rate Scenario	11	EL DORADO PH 2101668674, 352 support structure, 1 capacitor bank, 19 fuse, 12 switch, 150 transformer	9.351369089	11.73	466	8/20/2026	6/24/2027	Undergrounding	Overall Utility Risk
Proj00011-3UG-UGASHybrid Discount Rate Scenario	11	EL DORADO PH 2101668674, 352 support structure, 1 capacitor bank, 19 fuse, 12 switch, 150 transformer	4.81	6	466	8/20/2026	3/22/2028	Undergrounding	Overall Utility Risk
Proj00011-3UG-UGASSocietal Discount Rate Scenario	11	EL DORADO PH 2101668674, 352 support structure, 1 capacitor bank, 19 fuse, 12 switch, 150 transformer	4.81	6	466	8/20/2026	3/22/2028	Undergrounding	Overall Utility Risk
Proj00011-3UG-UGASWACC Discount Rate Scenario	11	EL DORADO PH 2101668674, 352 support structure, 1 capacitor bank, 19 fuse, 12 switch, 150 transformer	4.81	6	466	8/20/2026	3/22/2028	Undergrounding	Overall Utility Risk
Proj00012-3UG-ALT1Hybrid Discount Rate Scenario	11	JESSUP 110168362, 245 support structure, 2 capacitor bank, 17 fuse, 12 switch, 98 transformer	4.854890901	5.45	676	8/20/2026	2/17/2028	Overhead Hardening	Overall Utility Risk
Proj00012-3UG-ALT1Societal Discount Rate Scenario	11	JESSUP 110168362, 245 support structure, 2 capacitor bank, 17 fuse, 12 switch, 98 transformer	4.854890901	5.45	676	8/20/2026	2/17/2028	Overhead Hardening	Overall Utility Risk
Proj00012-3UG-ALT1WACC Discount Rate Scenario	11	JESSUP 110168362, 245 support structure, 2 capacitor bank, 17 fuse, 12 switch, 98 transformer	4.854890901	5.45	676	8/20/2026	2/17/2028	Overhead Hardening	Overall Utility Risk
Proj00012-3UG-PASHybrid Discount Rate Scenario	11	JESSUP 110168362, 245 support structure, 2 capacitor bank, 17 fuse, 12 switch, 98 transformer	4.854890901	6	676	8/20/2026	3/22/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00012-3UG-PASSocietal Discount Rate Scenario	11	JESSUP 110168362, 245 support structure, 2 capacitor bank, 17 fuse, 12 switch, 98 transformer	4.854890901	6	676	8/20/2026	3/22/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00012-3UG-PASWACC Discount Rate Scenario	11	JESSUP 110168362, 245 support structure, 2 capacitor bank, 17 fuse, 12 switch, 98 transformer	4.854890901	6	676	8/20/2026	3/22/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00012-3UG-UGASHybrid Discount Rate Scenario	11	JESSUP 110168362, 245 support structure, 2 capacitor bank, 17 fuse, 12 switch, 98 transformer	3.5	5.51	676	8/20/2026	7/27/2027	Undergrounding	Overall Utility Risk
Proj00012-3UG-UGASSocietal Discount Rate Scenario	11	JESSUP 110168362, 245 support structure, 2 capacitor bank, 17 fuse, 12 switch, 98 transformer	3.5	5.51	676	8/20/2026	7/27/2027	Undergrounding	Overall Utility Risk
Proj00012-3UG-UGASWACC Discount Rate Scenario	11	JESSUP 110168362, 245 support structure, 2 capacitor bank, 17 fuse, 12 switch, 98 transformer	3.5	5.51	676	8/20/2026	7/27/2027	Undergrounding	Overall Utility Risk
Proj00013-3UG-ALT1Hybrid Discount Rate Scenario	21	BEN LOMOND 0401944178, 330 support structure, 1 capacitor bank, 24 fuse, 21 switch, 130 transformer	7.715229106		833	8/20/2026		Overhead Hardening	Overall Utility Risk, Ignition Consequence
Proj00013-3UG-ALT1Societal Discount Rate Scenario	21	BEN LOMOND 0401944178, 330 support structure, 1 capacitor bank, 24 fuse, 21 switch, 130 transformer	7.715229106		833	8/20/2026		Overhead Hardening	Overall Utility Risk, Ignition Consequence
Proj00013-3UG-ALT1WACC Discount Rate Scenario	21	BEN LOMOND 0401944178, 330 support structure, 1 capacitor bank, 24 fuse, 21 switch, 130 transformer	7.715229106		833	8/20/2026		Overhead Hardening	Overall Utility Risk, Ignition Consequence
Proj00013-3UG-PASHybrid Discount Rate Scenario	21	BEN LOMOND 0401944178, 330 support structure, 1 capacitor bank, 24 fuse, 21 switch, 130 transformer	7.715229106		833	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00013-3UG-PASSocietal Discount Rate Scenario	21	BEN LOMOND 0401944178, 330 support structure, 1 capacitor bank, 24 fuse, 21 switch, 130 transformer	7.715229106		833	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00013-3UG-PASWACC Discount Rate Scenario	21	BEN LOMOND 0401944178, 330 support structure, 1 capacitor bank, 24 fuse, 21 switch, 130 transformer	7.715229106		833	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00013-3UG-UGASHybrid Discount Rate Scenario	21	BEN LOMOND 0401944178, 330 support structure, 1 capacitor bank, 24 fuse, 21 switch, 130 transformer	7.71	10.48	833	8/20/2026	2/10/2028	Undergrounding	Overall Utility Risk
Proj00013-3UG-UGASSocietal Discount Rate Scenario	21	BEN LOMOND 0401944178, 330 support structure, 1 capacitor bank, 24 fuse, 21 switch, 130 transformer	7.71	10.48	833	8/20/2026	2/10/2028	Undergrounding	Overall Utility Risk
Proj00013-3UG-UGASWACC Discount Rate Scenario	21	BEN LOMOND 0401944178, 330 support structure, 1 capacitor bank, 24 fuse, 21 switch, 130 transformer	7.71	10.48	833	8/20/2026	2/10/2028	Undergrounding	Overall Utility Risk
Proj00014-3UG-ALT1Hybrid Discount Rate Scenario	6	WOODACRE 1102851, 67 support structure, 0 capacitor bank, 0 fuse, 0 switch, 23 transformer	1.260822939	23.4	747	8/20/2026	12/10/2027	Overhead Hardening	Overall Utility Risk, Ignition Consequence
Proj00014-3UG-ALT1Societal Discount Rate Scenario	6	WOODACRE 1102851, 67 support structure, 0 capacitor bank, 0 fuse, 0 switch, 23 transformer	1.260822939	23.4	747	8/20/2026	12/10/2027	Overhead Hardening	Overall Utility Risk, Ignition Consequence
Proj00014-3UG-ALT1WACC Discount Rate Scenario	6	WOODACRE 1102851, 67 support structure, 0 capacitor bank, 0 fuse, 0 switch, 23 transformer	1.260822939	23.4	747	8/20/2026	12/10/2027	Overhead Hardening	Overall Utility Risk, Ignition Consequence
Proj00014-3UG-PASHybrid Discount Rate Scenario	6	WOODACRE 1102851, 67 support structure, 0 capacitor bank, 0 fuse, 0 switch, 23 transformer	1.260822939	0.48	747	8/20/2026	5/20/2028	Undergrounding	Overall Utility Risk
Proj00014-3UG-PASSocietal Discount Rate Scenario	6	WOODACRE 1102851, 67 support structure, 0 capacitor bank, 0 fuse, 0 switch, 23 transformer	1.260822939	0.48	747	8/20/2026	5/20/2028	Undergrounding	Overall Utility Risk
Proj00014-3UG-PASWACC Discount Rate Scenario	6	WOODACRE 1102851, 67 support structure, 0 capacitor bank, 0 fuse, 0 switch, 23 transformer	1.260822939	0.48	747	8/20/2026	5/20/2028	Undergrounding	Overall Utility Risk
Proj00014-3UG-UGASHybrid Discount Rate Scenario	6	WOODACRE 1102851, 67 support structure, 0 capacitor bank, 0 fuse, 0 switch, 23 transformer	1.26	1.29	747	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk
Proj00014-3UG-UGASSocietal Discount Rate Scenario	6	WOODACRE 1102851, 67 support structure, 0 capacitor bank, 0 fuse, 0 switch, 23 transformer	1.26	1.29	747	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk
Proj00014-3UG-UGASWACC Discount Rate Scenario	6	WOODACRE 1102851, 67 support structure, 0 capacitor bank, 0 fuse, 0 switch, 23 transformer	1.26	1.29	747	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk
Proj00015-3UG-ALT1Hybrid Discount Rate Scenario	4	ELECTRA 1101CB, 508 support structure, 0 capacitor bank, 18 fuse, 11 switch, 137 transformer	23.28232258		956	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00015-3UG-ALT1Societal Discount Rate Scenario	4	ELECTRA 1101CB, 508 support structure, 0 capacitor bank, 18 fuse, 11 switch, 137 transformer	23.28232258		956	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00015-3UG-ALT1WACC Discount Rate Scenario	4	ELECTRA 1101CB, 508 support structure, 0 capacitor bank, 18 fuse, 11 switch, 137 transformer	23.28232258		956	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00015-3UG-PASHybrid Discount Rate Scenario	4	ELECTRA 1101CB, 508 support structure, 0 capacitor bank, 18 fuse, 11 switch, 137 transformer	23.28232258		956	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00015-3UG-PASSocietal Discount Rate Scenario	4	ELECTRA 1101CB, 508 support structure, 0 capacitor bank, 18 fuse, 11 switch, 137 transformer	23.28232258		956	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00015-3UG-PASWACC Discount Rate Scenario	4	ELECTRA 1101CB, 508 support structure, 0 capacitor bank, 18 fuse, 11 switch, 137 transformer	23.28232258		956	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00015-3UG-UGASHybrid Discount Rate Scenario	4	ELECTRA 1101CB, 508 support structure, 0 capacitor bank, 18 fuse, 11 switch, 137 transformer	18.99	24.03	956	8/20/2026	2/16/2028	Undergrounding	Overall Utility Risk
Proj00015-3UG-UGASSocietal Discount Rate Scenario	4	ELECTRA 1101CB, 508 support structure, 0 capacitor bank, 18 fuse, 11 switch, 137 transformer	18.99	24.03	956	8/20/2026	2/16/2028	Undergrounding	Overall Utility Risk
Proj00015-3UG-UGASWACC Discount Rate Scenario	4	ELECTRA 1101CB, 508 support structure, 0 capacitor bank, 18 fuse, 11 switch, 137 transformer	18.99	24.03	956	8/20/2026	2/16/2028	Undergrounding	Overall Utility Risk
Proj00016-3UG-ALT1Hybrid Discount Rate Scenario	4	MARIPOSA 210110070, 553 support structure, 0 capacitor bank, 18 fuse, 8 switch, 198 transformer	25.69597947	0.28	1870	8/20/2026	2/14/2028	Overhead Hardening	Overall Utility Risk
Proj00016-3UG-ALT1Societal Discount Rate Scenario	4	MARIPOSA 210110070, 553 support structure, 0 capacitor bank, 18 fuse, 8 switch, 198 transformer	25.69597947	0.28	1870	8/20/2026	2/14/2028	Overhead Hardening	Overall Utility Risk
Proj00016-3UG-ALT1WACC Discount Rate Scenario	4	MARIPOSA 210110070, 553 support structure, 0 capacitor bank, 18 fuse, 8 switch, 198 transformer	25.69597947	0.28	1870	8/20/2026	2/14/2028	Overhead Hardening	Overall Utility Risk
Proj00016-3UG-PASHybrid Discount Rate Scenario	4	MARIPOSA 210110070, 553 support structure, 0 capacitor bank, 18 fuse, 8 switch, 198 transformer	25.69597947	5.51	1870	8/20/2026	7/27/2027	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00016-3UG-PASSocietal Discount Rate Scenario	4	MARIPOSA 210110070, 553 support structure, 0 capacitor bank, 18 fuse, 8 switch, 198 transformer	25.69597947	5.51	1870	8/20/2026	7/27/2027	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00016-3UG-PASWACC Discount Rate Scenario	4	MARIPOSA 210110070, 553 support structure, 0 capacitor bank, 18 fuse, 8 switch, 198 transformer	25.69597947	5.51	1870	8/20/2026	7/27/2027	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00016-3UG-UGASHybrid Discount Rate Scenario	4	MARIPOSA 210110070, 553 support structure, 0 capacitor bank, 18 fuse, 8 switch, 198 transformer	1.4	1.86	1870	8/20/2026	6/30/2028	Undergrounding	Overall Utility Risk
Proj00016-3UG-UGASSocietal Discount Rate Scenario	4	MARIPOSA 210110070, 553 support structure, 0 capacitor bank, 18 fuse, 8 switch, 198 transformer	1.4	1.86	1870	8/20/2026	6/30/2028	Undergrounding	Overall Utility Risk
Proj00016-3UG-UGASWACC Discount Rate Scenario	4	MARIPOSA 210110070, 553 support structure, 0 capacitor bank, 18 fuse, 8 switch, 198 transformer	1.4	1.86	1870	8/20/2026	6/30/2028	Undergrounding	Overall Utility Risk
Proj00017-3UG-ALT1Hybrid Discount Rate Scenario	21	SAN RAFAEL 1108322, 431 support structure, 1 capacitor bank, 22 fuse, 13 switch, 141 transformer	7.252187247		620	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00017-3UG-ALT1Societal Discount Rate Scenario	21	SAN RAFAEL 1108322, 431 support structure, 1 capacitor bank, 22 fuse, 13 switch, 141 transformer	7.252187247		620	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00017-3UG-ALT1WACC Discount Rate Scenario	21	SAN RAFAEL 1108322, 431 support structure, 1 capacitor bank, 22 fuse, 13 switch, 141 transformer	7.252187247		620	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00017-3UG-PASHybrid Discount Rate Scenario	21	SAN RAFAEL 1108322, 431 support structure, 1 capacitor bank, 22 fuse, 13 switch, 141 transformer	7.252187247		620	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00017-3UG-PASSocietal Discount Rate Scenario	21	SAN RAFAEL 1108322, 431 support structure, 1 capacitor bank, 22 fuse, 13 switch, 141 transformer	7.252187247		620	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00017-3UG-PASWACC Discount Rate Scenario	21	SAN RAFAEL 1108322, 431 support structure, 1 capacitor bank, 22 fuse, 13 switch, 141 transformer	7.252187247		620	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00017-3UG-UGASHybrid Discount Rate Scenario	21	SAN RAFAEL 1108322, 431 support structure, 1 capacitor bank, 22 fuse, 13 switch, 141 transformer	2.93	3.72	620	8/20/2026	4/10/2028	Undergrounding	Overall Utility Risk
Proj00017-3UG-UGASSocietal Discount Rate Scenario	21	SAN RAFAEL 1108322, 431 support structure, 1 capacitor bank, 22 fuse, 13 switch, 141 transformer	2.93	3.72	620	8/20/2026	4/10/2028	Undergrounding	Overall Utility Risk
Proj00017-3UG-UGASWACC Discount Rate Scenario	21	SAN RAFAEL 1108322, 431 support structure, 1 capacitor bank, 22 fuse, 13 switch, 141 transformer	2.93	3.72	620	8/20/2026	4/10/2028	Undergrounding	Overall Utility Risk
Proj00018-3UG-ALT1Hybrid Discount Rate Scenario	21	OAKLAND X 1104CR288, 164 support structure, 1 capacitor bank, 14 fuse, 14 switch, 42 transformer	2.67833823	33.55	510	8/20/2026	6/23/2027	Overhead Hardening	Overall Utility Risk
Proj00018-3UG-ALT1Societal Discount Rate Scenario	21	OAKLAND X 1104CR288, 164 support structure, 1 capacitor bank, 14 fuse, 14 switch, 42 transformer	2.67833823	33.55	510	8/20/2026	6/23/2027	Overhead Hardening	Overall Utility Risk
Proj00018-3UG-ALT1WACC Discount Rate Scenario	21	OAKLAND X 1104CR288, 164 support structure, 1 capacitor bank, 14 fuse, 14 switch, 42 transformer	2.67833823	33.55	510	8/20/2026	6/23/2027	Overhead Hardening	Overall Utility Risk
Proj00018-3UG-PASHybrid Discount Rate Scenario	21	OAKLAND X 1104CR288, 164 support structure, 1 capacitor bank, 14 fuse, 14 switch, 42 transformer	2.67833823		510	8/20/2026		Undergrounding	Overall Utility Risk
Proj00018-3UG-PASSocietal Discount Rate Scenario	21	OAKLAND X 1104CR288, 164 support structure, 1 capacitor bank, 14 fuse, 14 switch, 42 transformer	2.67833823		510	8/20/2026		Undergrounding	Overall Utility Risk
Proj00018-3UG-PASWACC Discount Rate Scenario	21	OAKLAND X 1104CR288, 164 support structure, 1 capacitor bank, 14 fuse, 14 switch, 42 transformer	2.67833823		510	8/20/2026		Undergrounding	Overall Utility Risk

SPD-37
Pacific Gas and Electric Company
Electrical Undergrounding Program
SPD-37 Table 1: Data Set

sorter	tranche_level	asset_system_list	total_circuit_miles	total_circuit_miles_ug	risk_ranking	scoping_date	start_date	mitigation_type	undergrounding_mitigation_justification1
Proj00018-3UG-UGASHybrid Discount Rate Scenario	21	OAKLAND X 1104CR288, 164 support structure, 1 capacitor bank, 14 fuse, 14 switch, 42 transformer	2.395409	2.46	510	8/20/2026	5/9/2028	Undergrounding	Overall Utility Risk
Proj00018-3UG-UGASSocietal Discount Rate Scenario	21	OAKLAND X 1104CR288, 164 support structure, 1 capacitor bank, 14 fuse, 14 switch, 42 transformer	2.395409	2.46	510	8/20/2026	5/9/2028	Undergrounding	Overall Utility Risk
Proj00018-3UG-UGASWACC Discount Rate Scenario	21	OAKLAND X 1104CR288, 164 support structure, 1 capacitor bank, 14 fuse, 14 switch, 42 transformer	2.395409	2.46	510	8/20/2026	5/9/2028	Undergrounding	Overall Utility Risk
Proj00019-3UG-ALT1Hybrid Discount Rate Scenario	16	WOODACRE 1102137662, 429 support structure, 1 capacitor bank, 22 fuse, 9 switch, 130 transformer	8.534041043		836	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00019-3UG-ALT1Societal Discount Rate Scenario	16	WOODACRE 1102137662, 429 support structure, 1 capacitor bank, 22 fuse, 9 switch, 130 transformer	8.534041043		836	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00019-3UG-ALT1WACC Discount Rate Scenario	16	WOODACRE 1102137662, 429 support structure, 1 capacitor bank, 22 fuse, 9 switch, 130 transformer	8.534041043		836	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00019-3UG-PASHybrid Discount Rate Scenario	16	WOODACRE 1102137662, 429 support structure, 1 capacitor bank, 22 fuse, 9 switch, 130 transformer	8.534041043	6.69	836	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk
Proj00019-3UG-PASSocietal Discount Rate Scenario	16	WOODACRE 1102137662, 429 support structure, 1 capacitor bank, 22 fuse, 9 switch, 130 transformer	8.534041043	6.69	836	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk
Proj00019-3UG-PASWACC Discount Rate Scenario	16	WOODACRE 1102137662, 429 support structure, 1 capacitor bank, 22 fuse, 9 switch, 130 transformer	8.534041043	6.69	836	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk
Proj00019-3UG-UGASHybrid Discount Rate Scenario	16	WOODACRE 1102137662, 429 support structure, 1 capacitor bank, 22 fuse, 9 switch, 130 transformer	8.53	11.43	836	8/20/2026	2/2/2028	Undergrounding	Overall Utility Risk
Proj00019-3UG-UGASSocietal Discount Rate Scenario	16	WOODACRE 1102137662, 429 support structure, 1 capacitor bank, 22 fuse, 9 switch, 130 transformer	8.53	11.43	836	8/20/2026	2/2/2028	Undergrounding	Overall Utility Risk
Proj00019-3UG-UGASWACC Discount Rate Scenario	16	WOODACRE 1102137662, 429 support structure, 1 capacitor bank, 22 fuse, 9 switch, 130 transformer	8.53	11.43	836	8/20/2026	2/2/2028	Undergrounding	Overall Utility Risk
Proj00020-3UG-ALT1Hybrid Discount Rate Scenario	21	CAMP EVERS 2105102094, 213 support structure, 1 capacitor bank, 17 fuse, 13 switch, 64 transformer	4.899493871	0.58	2201	8/20/2026	6/6/2028	Overhead Hardening	Overall Utility Risk
Proj00020-3UG-ALT1Societal Discount Rate Scenario	21	CAMP EVERS 2105102094, 213 support structure, 1 capacitor bank, 17 fuse, 13 switch, 64 transformer	4.899493871	0.58	2201	8/20/2026	6/6/2028	Overhead Hardening	Overall Utility Risk
Proj00020-3UG-ALT1WACC Discount Rate Scenario	21	CAMP EVERS 2105102094, 213 support structure, 1 capacitor bank, 17 fuse, 13 switch, 64 transformer	4.899493871	0.58	2201	8/20/2026	6/6/2028	Overhead Hardening	Overall Utility Risk
Proj00020-3UG-PASHybrid Discount Rate Scenario	21	CAMP EVERS 2105102094, 213 support structure, 1 capacitor bank, 17 fuse, 13 switch, 64 transformer	4.899493871		2201	8/20/2026		Undergrounding	Overall Utility Risk
Proj00020-3UG-PASSocietal Discount Rate Scenario	21	CAMP EVERS 2105102094, 213 support structure, 1 capacitor bank, 17 fuse, 13 switch, 64 transformer	4.899493871		2201	8/20/2026		Undergrounding	Overall Utility Risk
Proj00020-3UG-PASWACC Discount Rate Scenario	21	CAMP EVERS 2105102094, 213 support structure, 1 capacitor bank, 17 fuse, 13 switch, 64 transformer	4.899493871		2201	8/20/2026		Undergrounding	Overall Utility Risk
Proj00020-3UG-UGASHybrid Discount Rate Scenario	21	CAMP EVERS 2105102094, 213 support structure, 1 capacitor bank, 17 fuse, 13 switch, 64 transformer	4.9	5.45	2201	8/20/2026	2/17/2028	Undergrounding	Overall Utility Risk
Proj00020-3UG-UGASSocietal Discount Rate Scenario	21	CAMP EVERS 2105102094, 213 support structure, 1 capacitor bank, 17 fuse, 13 switch, 64 transformer	4.9	5.45	2201	8/20/2026	2/17/2028	Undergrounding	Overall Utility Risk
Proj00020-3UG-UGASWACC Discount Rate Scenario	21	CAMP EVERS 2105102094, 213 support structure, 1 capacitor bank, 17 fuse, 13 switch, 64 transformer	4.9	5.45	2201	8/20/2026	2/17/2028	Undergrounding	Overall Utility Risk
Proj00021-3UG-ALT1Hybrid Discount Rate Scenario	5	STILLWATER 11021466, 623 support structure, 1 capacitor bank, 14 fuse, 8 switch, 219 transformer	20.14158015		1634	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00021-3UG-ALT1Societal Discount Rate Scenario	5	STILLWATER 11021466, 623 support structure, 1 capacitor bank, 14 fuse, 8 switch, 219 transformer	20.14158015		1634	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00021-3UG-ALT1WACC Discount Rate Scenario	5	STILLWATER 11021466, 623 support structure, 1 capacitor bank, 14 fuse, 8 switch, 219 transformer	20.14158015		1634	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00021-3UG-PASHybrid Discount Rate Scenario	5	STILLWATER 11021466, 623 support structure, 1 capacitor bank, 14 fuse, 8 switch, 219 transformer	20.14158015	0.58	1634	8/20/2026	12/10/2027	Undergrounding	Overall Utility Risk
Proj00021-3UG-PASSocietal Discount Rate Scenario	5	STILLWATER 11021466, 623 support structure, 1 capacitor bank, 14 fuse, 8 switch, 219 transformer	20.14158015	0.58	1634	8/20/2026	12/10/2027	Undergrounding	Overall Utility Risk
Proj00021-3UG-PASWACC Discount Rate Scenario	5	STILLWATER 11021466, 623 support structure, 1 capacitor bank, 14 fuse, 8 switch, 219 transformer	20.14158015	0.58	1634	8/20/2026	12/10/2027	Undergrounding	Overall Utility Risk
Proj00021-3UG-UGASHybrid Discount Rate Scenario	5	STILLWATER 11021466, 623 support structure, 1 capacitor bank, 14 fuse, 8 switch, 219 transformer	20.14	23.4	1634	8/20/2026	12/10/2027	Undergrounding	Overall Utility Risk, Ignition Consequence
Proj00021-3UG-UGASSocietal Discount Rate Scenario	5	STILLWATER 11021466, 623 support structure, 1 capacitor bank, 14 fuse, 8 switch, 219 transformer	20.14	23.4	1634	8/20/2026	12/10/2027	Undergrounding	Overall Utility Risk, Ignition Consequence
Proj00021-3UG-UGASWACC Discount Rate Scenario	5	STILLWATER 11021466, 623 support structure, 1 capacitor bank, 14 fuse, 8 switch, 219 transformer	20.14	23.4	1634	8/20/2026	12/10/2027	Undergrounding	Overall Utility Risk, Ignition Consequence
Proj00022-3UG-ALT1Hybrid Discount Rate Scenario	2	KONOCTI 1102714370, 107 support structure, 1 capacitor bank, 6 fuse, 3 switch, 29 transformer	2.411340082	3.58	1646	8/20/2026	1/4/2028	Overhead Hardening	Overall Utility Risk
Proj00022-3UG-ALT1Societal Discount Rate Scenario	2	KONOCTI 1102714370, 107 support structure, 1 capacitor bank, 6 fuse, 3 switch, 29 transformer	2.411340082	3.58	1646	8/20/2026	1/4/2028	Overhead Hardening	Overall Utility Risk
Proj00022-3UG-ALT1WACC Discount Rate Scenario	2	KONOCTI 1102714370, 107 support structure, 1 capacitor bank, 6 fuse, 3 switch, 29 transformer	2.411340082	3.58	1646	8/20/2026	1/4/2028	Overhead Hardening	Overall Utility Risk
Proj00022-3UG-PASHybrid Discount Rate Scenario	2	KONOCTI 1102714370, 107 support structure, 1 capacitor bank, 6 fuse, 3 switch, 29 transformer	2.411340082	10.48	1646	8/20/2026	2/10/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00022-3UG-PASSocietal Discount Rate Scenario	2	KONOCTI 1102714370, 107 support structure, 1 capacitor bank, 6 fuse, 3 switch, 29 transformer	2.411340082	10.48	1646	8/20/2026	2/10/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00022-3UG-PASWACC Discount Rate Scenario	2	KONOCTI 1102714370, 107 support structure, 1 capacitor bank, 6 fuse, 3 switch, 29 transformer	2.411340082	10.48	1646	8/20/2026	2/10/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00022-3UG-UGASHybrid Discount Rate Scenario	2	KONOCTI 1102714370, 107 support structure, 1 capacitor bank, 6 fuse, 3 switch, 29 transformer	0.28	0.28	1646	8/20/2026	2/14/2028	Undergrounding	Overall Utility Risk
Proj00022-3UG-UGASSocietal Discount Rate Scenario	2	KONOCTI 1102714370, 107 support structure, 1 capacitor bank, 6 fuse, 3 switch, 29 transformer	0.28	0.28	1646	8/20/2026	2/14/2028	Undergrounding	Overall Utility Risk
Proj00022-3UG-UGASWACC Discount Rate Scenario	2	KONOCTI 1102714370, 107 support structure, 1 capacitor bank, 6 fuse, 3 switch, 29 transformer	0.28	0.28	1646	8/20/2026	2/14/2028	Undergrounding	Overall Utility Risk
Proj00023-3UG-ALT1Hybrid Discount Rate Scenario	3	PLACERVILLE 21069712, 590 support structure, 0 capacitor bank, 37 fuse, 11 switch, 170 transformer	24.70650298		947	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00023-3UG-ALT1Societal Discount Rate Scenario	3	PLACERVILLE 21069712, 590 support structure, 0 capacitor bank, 37 fuse, 11 switch, 170 transformer	24.70650298		947	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00023-3UG-ALT1WACC Discount Rate Scenario	3	PLACERVILLE 21069712, 590 support structure, 0 capacitor bank, 37 fuse, 11 switch, 170 transformer	24.70650298		947	8/20/2026		Overhead Hardening	Overall Utility Risk
Proj00023-3UG-PASHybrid Discount Rate Scenario	3	PLACERVILLE 21069712, 590 support structure, 0 capacitor bank, 37 fuse, 11 switch, 170 transformer	24.70650298		947	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00023-3UG-PASSocietal Discount Rate Scenario	3	PLACERVILLE 21069712, 590 support structure, 0 capacitor bank, 37 fuse, 11 switch, 170 transformer	24.70650298		947	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00023-3UG-PASWACC Discount Rate Scenario	3	PLACERVILLE 21069712, 590 support structure, 0 capacitor bank, 37 fuse, 11 switch, 170 transformer	24.70650298		947	8/20/2026		Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00023-3UG-UGASHybrid Discount Rate Scenario	3	PLACERVILLE 21069712, 590 support structure, 0 capacitor bank, 37 fuse, 11 switch, 170 transformer	24.51	33.55	947	8/20/2026	6/23/2027	Undergrounding	Overall Utility Risk
Proj00023-3UG-UGASSocietal Discount Rate Scenario	3	PLACERVILLE 21069712, 590 support structure, 0 capacitor bank, 37 fuse, 11 switch, 170 transformer	24.51	33.55	947	8/20/2026	6/23/2027	Undergrounding	Overall Utility Risk
Proj00023-3UG-UGASWACC Discount Rate Scenario	3	PLACERVILLE 21069712, 590 support structure, 0 capacitor bank, 37 fuse, 11 switch, 170 transformer	24.51	33.55	947	8/20/2026	6/23/2027	Undergrounding	Overall Utility Risk
Proj00024-3UG-ALT1Hybrid Discount Rate Scenario	16	MENLO 1102628458, 41 support structure, 0 capacitor bank, 4 fuse, 4 switch, 11 transformer	1.141460638	3.47	1776	8/20/2026	2/3/2028	Overhead Hardening	Overall Utility Risk
Proj00024-3UG-ALT1Societal Discount Rate Scenario	16	MENLO 1102628458, 41 support structure, 0 capacitor bank, 4 fuse, 4 switch, 11 transformer	1.141460638	3.47	1776	8/20/2026	2/3/2028	Overhead Hardening	Overall Utility Risk
Proj00024-3UG-ALT1WACC Discount Rate Scenario	16	MENLO 1102628458, 41 support structure, 0 capacitor bank, 4 fuse, 4 switch, 11 transformer	1.141460638	3.47	1776	8/20/2026	2/3/2028	Overhead Hardening	Overall Utility Risk
Proj00024-3UG-PASHybrid Discount Rate Scenario	16	MENLO 1102628458, 41 support structure, 0 capacitor bank, 4 fuse, 4 switch, 11 transformer	1.141460638		1776	8/20/2026		Undergrounding	Overall Utility Risk
Proj00024-3UG-PASSocietal Discount Rate Scenario	16	MENLO 1102628458, 41 support structure, 0 capacitor bank, 4 fuse, 4 switch, 11 transformer	1.141460638		1776	8/20/2026		Undergrounding	Overall Utility Risk
Proj00024-3UG-PASWACC Discount Rate Scenario	16	MENLO 1102628458, 41 support structure, 0 capacitor bank, 4 fuse, 4 switch, 11 transformer	1.141460638		1776	8/20/2026		Undergrounding	Overall Utility Risk
Proj00024-3UG-UGASHybrid Discount Rate Scenario	16	MENLO 1102628458, 41 support structure, 0 capacitor bank, 4 fuse, 4 switch, 11 transformer	1.14	0.58	1776	8/20/2026	6/6/2028	Undergrounding	Overall Utility Risk
Proj00024-3UG-UGASSocietal Discount Rate Scenario	16	MENLO 1102628458, 41 support structure, 0 capacitor bank, 4 fuse, 4 switch, 11 transformer	1.14	0.58	1776	8/20/2026	6/6/2028	Undergrounding	Overall Utility Risk
Proj00024-3UG-UGASWACC Discount Rate Scenario	16	MENLO 1102628458, 41 support structure, 0 capacitor bank, 4 fuse, 4 switch, 11 transformer	1.14	0.58	1776	8/20/2026	6/6/2028	Undergrounding	Overall Utility Risk
Proj00025-3UG-ALT1Hybrid Discount Rate Scenario	11	ALTO 11221260, 194 support structure, 0 capacitor bank, 9 fuse, 5 switch, 64 transformer	2.841383023		1678	8/20/2026		Overhead Hardening	Overall Utility Risk, Outage Program Likelihood
Proj00025-3UG-ALT1Societal Discount Rate Scenario	11	ALTO 11221260, 194 support structure, 0 capacitor bank, 9 fuse, 5 switch, 64 transformer	2.841383023		1678	8/20/2026		Overhead Hardening	Overall Utility Risk, Outage Program Likelihood
Proj00025-3UG-ALT1WACC Discount Rate Scenario	11	ALTO 11221260, 194 support structure, 0 capacitor bank, 9 fuse, 5 switch, 64 transformer	2.841383023		1678	8/20/2026		Overhead Hardening	Overall Utility Risk, Outage Program Likelihood
Proj00025-3UG-PASHybrid Discount Rate Scenario	11	ALTO 11221260, 194 support structure, 0 capacitor bank, 9 fuse, 5 switch, 64 transformer	2.841383023	1.08	1678	8/20/2026	6/5/2028	Undergrounding	Overall Utility Risk
Proj00025-3UG-PASSocietal Discount Rate Scenario	11	ALTO 11221260, 194 support structure, 0 capacitor bank, 9 fuse, 5 switch, 64 transformer	2.841383023	1.08	1678	8/20/2026	6/5/2028	Undergrounding	Overall Utility Risk
Proj00025-3UG-PASWACC Discount Rate Scenario	11	ALTO 11221260, 194 support structure, 0 capacitor bank, 9 fuse, 5 switch, 64 transformer	2.841383023	1.08	1678	8/20/2026	6/5/2028	Undergrounding	Overall Utility Risk
Proj00025-3UG-UGASHybrid Discount Rate Scenario	11	ALTO 11221260, 194 support structure, 0 capacitor bank, 9 fuse, 5 switch, 64 transformer	2.84	3.58	1678	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk
Proj00025-3UG-UGASSocietal Discount Rate Scenario	11	ALTO 11221260, 194 support structure, 0 capacitor bank, 9 fuse, 5 switch, 64 transformer	2.84	3.58	1678	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk
Proj00025-3UG-UGASWACC Discount Rate Scenario	11	ALTO 11221260, 194 support structure, 0 capacitor bank, 9 fuse, 5 switch, 64 transformer	2.84	3.58	1678	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk
Proj00026-3UG-ALT1Hybrid Discount Rate Scenario	16	CAMP EVERS 2105534190, 130 support structure, 0 capacitor bank, 9 fuse, 3 switch, 41 transformer	3.391908236	1.35	2685	8/20/2026	3/1/2028	Overhead Hardening	Overall Utility Risk, Outage Program Likelihood
Proj00026-3UG-ALT1Societal Discount Rate Scenario	16	CAMP EVERS 2105534190, 130 support structure, 0 capacitor bank, 9 fuse, 3 switch, 41 transformer	3.391908236	1.35	2685	8/20/2026	3/1/2028	Overhead Hardening	Overall Utility Risk, Outage Program Likelihood
Proj00026-3UG-ALT1WACC Discount Rate Scenario	16	CAMP EVERS 2105534190, 130 support structure, 0 capacitor bank, 9 fuse, 3 switch, 41 transformer	3.391908236	1.35	2685	8/20/2026	3/1/2028	Overhead Hardening	Overall Utility Risk, Outage Program Likelihood
Proj00026-3UG-PASHybrid Discount Rate Scenario	16	CAMP EVERS 2105534190, 130 support structure, 0 capacitor bank, 9 fuse, 3 switch, 41 transformer	3.391908236		2685	8/20/2026		Undergrounding	Overall Utility Risk, Ignition Consequence
Proj00026-3UG-PASSocietal Discount Rate Scenario	16	CAMP EVERS 2105534190, 130 support structure, 0 capacitor bank, 9 fuse, 3 switch, 41 transformer	3.391908236		2685	8/20/2026		Undergrounding	Overall Utility Risk, Ignition Consequence
Proj00026-3UG-PASWACC Discount Rate Scenario	16	CAMP EVERS 2105534190, 130 support structure, 0 capacitor bank, 9 fuse, 3 switch, 41 transformer	3.391908236		2685	8/20/2026		Undergrounding	Overall Utility Risk, Ignition Consequence
Proj00026-3UG-UGASHybrid Discount Rate Scenario	16	CAMP EVERS 2105534190, 130 support structure, 0 capacitor bank, 9 fuse, 3 switch, 41 transformer	3.39	3.47	2685	8/20/2026	2/3/2028	Undergrounding	Overall Utility Risk
Proj00026-3UG-UGASSocietal Discount Rate Scenario	16	CAMP EVERS 2105534190, 130 support structure, 0 capacitor bank, 9 fuse, 3 switch, 41 transformer	3.39	3.47	2685	8/20/2026	2/3/2028	Undergrounding	Overall Utility Risk
Proj00026-3UG-UGASWACC Discount Rate Scenario	16	CAMP EVERS 2105534190, 130 support structure, 0 capacitor bank, 9 fuse, 3 switch, 41 transformer	3.39	3.47	2685	8/20/2026	2/3/2028	Undergrounding	Overall Utility Risk
Proj00027-3UG-ALT1Hybrid Discount Rate Scenario	10	CORTINA 1101302192, 352 support structure, 0 capacitor bank, 9 fuse, 13 switch, 66 transformer	1.322067785		215	8/20/2026		Overhead Hardening	Overall Utility Risk, Outage Program Likelihood
Proj00027-3UG-ALT1Societal Discount Rate Scenario	10	CORTINA 1101302192, 352 support structure, 0 capacitor bank, 9 fuse, 13 switch, 66 transformer	1.322067785		215	8/20/2026		Overhead Hardening	Overall Utility Risk, Outage Program Likelihood
Proj00027-3UG-ALT1WACC Discount Rate Scenario	10	CORTINA 1101302192, 352 support structure, 0 capacitor bank, 9 fuse, 13 switch, 66 transformer	1.322067785		215	8/20/2026		Overhead Hardening	Overall Utility Risk, Outage Program Likelihood
Proj00027-3UG-PASHybrid Discount Rate Scenario	10	CORTINA 1101302192, 352 support structure, 0 capacitor bank, 9 fuse, 13 switch, 66 transformer	1.322067785	13.54	215	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk, Ignition Consequence
Proj00027-3UG-PASSocietal Discount Rate Scenario	10	CORTINA 1101302192, 352 support structure, 0 capacitor bank, 9 fuse, 13 switch, 66 transformer	1.322067785	13.54	215	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk, Ignition Consequence
Proj00027-3UG-PASWACC Discount Rate Scenario	10	CORTINA 1101302192, 352 support structure, 0 capacitor bank, 9 fuse, 13 switch, 66 transformer	1.322067785	13.54	215	8/20/2026	1/4/2028	Undergrounding	Overall Utility Risk, Ignition Consequence
Proj00027-3UG-UGASHybrid Discount Rate Scenario	10	CORTINA 1101302192, 352 support structure, 0 capacitor bank, 9 fuse, 13 switch, 66 transformer	1.32	1.35	215	8/20/2026	3/1/2028	Undergrounding	Overall Utility Risk, Outage Program Likelihood
Proj00027-3UG-UGASSocietal Discount Rate Scenario	10	CORTINA 1101302192, 352 support structure, 0 capacitor bank, 9 fuse, 13 switch, 66 transformer	1.32	1.35	215	8/20/2026	3/1/2028	Undergrounding	Overall Utility Risk, Outage Program Likelihood
Proj00027-3UG-UGASWACC Discount Rate Scenario	10	CORTINA 1101302192, 352 support structure, 0 capacitor bank, 9 fuse, 13 switch, 66 transformer	1.32	1.35	215	8/20/2026	3/1/2028	Undergrounding	Overall Utility Risk, Outage Program Likelihood
Proj00028-3UG-ALT1Hybrid Discount Rate Scenario	4	VOLTA 1102CB, 102 support structure, 0 capacitor bank, 2 fuse, 4 switch, 12 transformer	3.337301116	2.88	447	8/20/2026	12/15/2027	Overhead Hardening	Overall Utility Risk, Outage Program Likelihood
Proj00028-3UG-ALT1Societal Discount Rate Scenario	4	VOLTA 1102CB, 102 support structure, 0 capacitor bank, 2 fuse, 4 switch, 12 transformer	3.337301116	2.88	447	8/20/2026	12/15/2027	Overhead Hardening	Overall Utility Risk, Outage Program Likelihood
Proj00028-3UG-ALT1WACC Discount Rate Scenario	4	VOLTA 1102CB, 102 support structure, 0 capacitor bank, 2 fuse, 4 switch, 12 transformer	3.337301116	2.88	447	8/20/2026	12/15/2027	Overhead Hardening	Overall Utility Risk, Outage Program Likelihood
Proj00028-3UG-PASHybrid Discount Rate Scenario	4	VOLTA 1102CB, 102 support structure, 0 capacitor bank, 2 fuse, 4 switch, 12 transformer	3.337301116	1.29	447	8/20/2026	1/4/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00028-3UG-PASSocietal Discount Rate Scenario	4	VOLTA 1102CB, 102 support structure, 0 capacitor bank, 2 fuse, 4 switch, 12 transformer	3.337301116	1.29	447	8/20/2026	1/4/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00028-3UG-PASWACC Discount Rate Scenario	4	VOLTA 1102CB, 102 support structure, 0 capacitor bank, 2 fuse, 4 switch, 12 transformer	3.337301116	1.29	447	8/20/2026	1/4/2028	Overhead Hardening, Undergrounding	Overall Utility Risk
Proj00028-3UG-UGASHybrid Discount Rate Scenario	4	VOLTA 1102CB, 102 support structure, 0 capacitor bank, 2 fuse, 4 switch, 12 transformer	2.65	2.88	447	8/20/2026	12/15/2027	Undergrounding	Overall Utility Risk, Outage Program Likelihood
Proj00028-3UG-UGASSocietal Discount Rate Scenario	4	VOLTA 1102CB, 102 support structure, 0 capacitor bank, 2 fuse, 4 switch, 12 transformer	2.65	2.88	447	8/20/2026	12/15/2027	Undergrounding	Overall Utility Risk, Outage Program Likelihood
Proj00028-3UG-UGASWACC Discount Rate Scenario	4	VOLTA 1102CB, 102 support structure, 0 capacitor bank, 2 fuse, 4 switch, 12 transformer	2.65	2.88	447	8/20/2026	12/15/2027	Undergrounding	Overall Utility Risk, Outage Program Likelihood

SPD-37
Pacific Gas and Electric Company
Electrical Undergrounding Program
SPD-37 Table 1: Data Set

sorter	undergrounding_mitigation_justification2	status	used_and_useful_date	bcr_year_zero	useful_life	ignition_pre_mitigated_likelihood
Proj00001-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.038690036
Proj00001-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.038690036
Proj00001-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.038690036
Proj00001-3UG-PASHybrid Discount Rate Scenario			9/28/2028	2028	55	0.038690036
Proj00001-3UG-PASSocietal Discount Rate Scenario			9/28/2028	2028	55	0.038690036
Proj00001-3UG-PASWACC Discount Rate Scenario			9/28/2028	2028	55	0.038690036
Proj00001-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Designing	9/28/2028	2028	55	0.038690036
Proj00001-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Designing	9/28/2028	2028	55	0.038690036
Proj00001-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Designing	9/28/2028	2028	55	0.038690036
Proj00002-3UG-ALT1Hybrid Discount Rate Scenario		Scoping	12/27/2028	2028	48	0.019036013
Proj00002-3UG-ALT1Societal Discount Rate Scenario		Scoping	12/27/2028	2028	48	0.019036013
Proj00002-3UG-ALT1WACC Discount Rate Scenario		Scoping	12/27/2028	2028	48	0.019036013
Proj00002-3UG-PASHybrid Discount Rate Scenario		Designing	9/28/2028	2028	55	0.019036013
Proj00002-3UG-PASSocietal Discount Rate Scenario		Designing	9/28/2028	2028	55	0.019036013
Proj00002-3UG-PASWACC Discount Rate Scenario		Designing	9/28/2028	2028	55	0.019036013
Proj00002-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	11/6/2028	2028	55	0.01073098
Proj00002-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	11/6/2028	2028	55	0.01073098
Proj00002-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	11/6/2028	2028	55	0.01073098
Proj00003-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.036771713
Proj00003-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.036771713
Proj00003-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.036771713
Proj00003-3UG-PASHybrid Discount Rate Scenario			10/6/2028	2028	55	0.036771713
Proj00003-3UG-PASSocietal Discount Rate Scenario			10/6/2028	2028	55	0.036771713
Proj00003-3UG-PASWACC Discount Rate Scenario			10/6/2028	2028	55	0.036771713
Proj00003-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Scoping	10/2/2028	2028	55	0.034121123
Proj00003-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Scoping	10/2/2028	2028	55	0.034121123
Proj00003-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Scoping	10/2/2028	2028	55	0.034121123
Proj00004-3UG-ALT1Hybrid Discount Rate Scenario		Scoping	12/26/2028	2028	48	0.001360101
Proj00004-3UG-ALT1Societal Discount Rate Scenario		Scoping	12/26/2028	2028	48	0.001360101
Proj00004-3UG-ALT1WACC Discount Rate Scenario		Scoping	12/26/2028	2028	48	0.001360101
Proj00004-3UG-PASHybrid Discount Rate Scenario		Scoping	11/6/2028	2028	55	0.001360101
Proj00004-3UG-PASSocietal Discount Rate Scenario		Scoping	11/6/2028	2028	55	0.001360101
Proj00004-3UG-PASWACC Discount Rate Scenario		Scoping	11/6/2028	2028	55	0.001360101
Proj00004-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	10/9/2028	2028	55	0.001360101
Proj00004-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	10/9/2028	2028	55	0.001360101
Proj00004-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	10/9/2028	2028	55	0.001360101
Proj00005-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.010372174
Proj00005-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.010372174
Proj00005-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.010372174
Proj00005-3UG-PASHybrid Discount Rate Scenario			9/7/2028	2028	55	0.010372174
Proj00005-3UG-PASSocietal Discount Rate Scenario			9/7/2028	2028	55	0.010372174
Proj00005-3UG-PASWACC Discount Rate Scenario			9/7/2028	2028	55	0.010372174
Proj00005-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Scoping	10/30/2028	2028	55	0.010372174
Proj00005-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Scoping	10/30/2028	2028	55	0.010372174
Proj00005-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Scoping	10/30/2028	2028	55	0.010372174
Proj00006-3UG-ALT1Hybrid Discount Rate Scenario		Designing	11/2/2028	2028	48	0.012947138
Proj00006-3UG-ALT1Societal Discount Rate Scenario		Designing	11/2/2028	2028	48	0.012947138
Proj00006-3UG-ALT1WACC Discount Rate Scenario		Designing	11/2/2028	2028	48	0.012947138
Proj00006-3UG-PASHybrid Discount Rate Scenario			9/27/2028	2028	55	0.012947138
Proj00006-3UG-PASSocietal Discount Rate Scenario			9/27/2028	2028	55	0.012947138
Proj00006-3UG-PASWACC Discount Rate Scenario			9/27/2028	2028	55	0.012947138
Proj00006-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Permitting	8/2/2028	2028	55	0.005458764
Proj00006-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Permitting	8/2/2028	2028	55	0.005458764
Proj00006-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Permitting	8/2/2028	2028	55	0.005458764
Proj00007-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.012850274
Proj00007-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.012850274
Proj00007-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.012850274
Proj00007-3UG-PASHybrid Discount Rate Scenario		Scoping	11/16/2028	2028	55	0.012850274
Proj00007-3UG-PASSocietal Discount Rate Scenario		Scoping	11/16/2028	2028	55	0.012850274
Proj00007-3UG-PASWACC Discount Rate Scenario		Scoping	11/16/2028	2028	55	0.012850274
Proj00007-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Designing	11/8/2028	2028	55	0.001820552
Proj00007-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Designing	11/8/2028	2028	55	0.001820552
Proj00007-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Designing	11/8/2028	2028	55	0.001820552
Proj00008-3UG-ALT1Hybrid Discount Rate Scenario		Designing	12/13/2028	2028	48	0.026612303
Proj00008-3UG-ALT1Societal Discount Rate Scenario		Designing	12/13/2028	2028	48	0.026612303
Proj00008-3UG-ALT1WACC Discount Rate Scenario		Designing	12/13/2028	2028	48	0.026612303
Proj00008-3UG-PASHybrid Discount Rate Scenario			11/9/2028	2028	55	0.026612303
Proj00008-3UG-PASSocietal Discount Rate Scenario			11/9/2028	2028	55	0.026612303
Proj00008-3UG-PASWACC Discount Rate Scenario			11/9/2028	2028	55	0.026612303
Proj00008-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Designing	12/11/2028	2028	55	0.011007651
Proj00008-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Designing	12/11/2028	2028	55	0.011007651
Proj00008-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Designing	12/11/2028	2028	55	0.011007651
Proj00009-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.066115336
Proj00009-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.066115336
Proj00009-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.066115336
Proj00009-3UG-PASHybrid Discount Rate Scenario		Scoping	12/22/2028	2028	55	0.066115336
Proj00009-3UG-PASSocietal Discount Rate Scenario		Scoping	12/22/2028	2028	55	0.066115336

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sorter	undergrounding_mitigation_justification2	status	used_and_useful_date	bcr_year_zero	useful_life	ignition_pre_mitigated_likelihood
Proj00009-3UG-PASWACC Discount Rate Scenario		Scoping	12/22/2028	2028	55	0.066115336
Proj00009-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	11/16/2028	2028	55	0.061226238
Proj00009-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	11/16/2028	2028	55	0.061226238
Proj00009-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	11/16/2028	2028	55	0.061226238
Proj00010-3UG-ALT1Hybrid Discount Rate Scenario		Scoping	11/27/2028	2028	48	0.083626211
Proj00010-3UG-ALT1Societal Discount Rate Scenario		Scoping	11/27/2028	2028	48	0.083626211
Proj00010-3UG-ALT1WACC Discount Rate Scenario		Scoping	11/27/2028	2028	48	0.083626211
Proj00010-3UG-PASHybrid Discount Rate Scenario			12/22/2028	2028	55	0.083626211
Proj00010-3UG-PASSocietal Discount Rate Scenario			12/22/2028	2028	55	0.083626211
Proj00010-3UG-PASWACC Discount Rate Scenario			12/22/2028	2028	55	0.083626211
Proj00010-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	12/22/2028	2028	55	0.071261122
Proj00010-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	12/22/2028	2028	55	0.071261122
Proj00010-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	12/22/2028	2028	55	0.071261122
Proj00011-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.038218947
Proj00011-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.038218947
Proj00011-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.038218947
Proj00011-3UG-PASHybrid Discount Rate Scenario		Scoping	10/2/2028	2028	55	0.038218947
Proj00011-3UG-PASSocietal Discount Rate Scenario		Scoping	10/2/2028	2028	55	0.038218947
Proj00011-3UG-PASWACC Discount Rate Scenario		Scoping	10/2/2028	2028	55	0.038218947
Proj00011-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	11/22/2028	2028	55	0.019664016
Proj00011-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	11/22/2028	2028	55	0.019664016
Proj00011-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	11/22/2028	2028	55	0.019664016
Proj00012-3UG-ALT1Hybrid Discount Rate Scenario		Scoping	7/3/2028	2028	48	0.0358941
Proj00012-3UG-ALT1Societal Discount Rate Scenario		Scoping	7/3/2028	2028	48	0.0358941
Proj00012-3UG-ALT1WACC Discount Rate Scenario		Scoping	7/3/2028	2028	48	0.0358941
Proj00012-3UG-PASHybrid Discount Rate Scenario		Scoping	11/22/2028	2028	55	0.0358941
Proj00012-3UG-PASSocietal Discount Rate Scenario		Scoping	11/22/2028	2028	55	0.0358941
Proj00012-3UG-PASWACC Discount Rate Scenario		Scoping	11/22/2028	2028	55	0.0358941
Proj00012-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	8/7/2028	2028	55	0.025876869
Proj00012-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	8/7/2028	2028	55	0.025876869
Proj00012-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	8/7/2028	2028	55	0.025876869
Proj00013-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.083097701
Proj00013-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.083097701
Proj00013-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.083097701
Proj00013-3UG-PASHybrid Discount Rate Scenario			8/8/2028	2028	55	0.083097701
Proj00013-3UG-PASSocietal Discount Rate Scenario			8/8/2028	2028	55	0.083097701
Proj00013-3UG-PASWACC Discount Rate Scenario			8/8/2028	2028	55	0.083097701
Proj00013-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	8/8/2028	2028	55	0.083097701
Proj00013-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	8/8/2028	2028	55	0.083097701
Proj00013-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	8/8/2028	2028	55	0.083097701
Proj00014-3UG-ALT1Hybrid Discount Rate Scenario		Scoping	3/13/2029	2028	48	0.008595652
Proj00014-3UG-ALT1Societal Discount Rate Scenario		Scoping	3/13/2029	2028	48	0.008595652
Proj00014-3UG-ALT1WACC Discount Rate Scenario		Scoping	3/13/2029	2028	48	0.008595652
Proj00014-3UG-PASHybrid Discount Rate Scenario		Scoping	10/9/2028	2028	55	0.008595652
Proj00014-3UG-PASSocietal Discount Rate Scenario		Scoping	10/9/2028	2028	55	0.008595652
Proj00014-3UG-PASWACC Discount Rate Scenario		Scoping	10/9/2028	2028	55	0.008595652
Proj00014-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	7/10/2028	2028	55	0.008595652
Proj00014-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	7/10/2028	2028	55	0.008595652
Proj00014-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	7/10/2028	2028	55	0.008595652
Proj00015-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.043003742
Proj00015-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.043003742
Proj00015-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.043003742
Proj00015-3UG-PASHybrid Discount Rate Scenario			8/7/2028	2028	55	0.043003742
Proj00015-3UG-PASSocietal Discount Rate Scenario			8/7/2028	2028	55	0.043003742
Proj00015-3UG-PASWACC Discount Rate Scenario			8/7/2028	2028	55	0.043003742
Proj00015-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	12/27/2028	2028	55	0.035075588
Proj00015-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	12/27/2028	2028	55	0.035075588
Proj00015-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	12/27/2028	2028	55	0.035075588
Proj00016-3UG-ALT1Hybrid Discount Rate Scenario		Designing	6/1/2028	2028	48	0.040871397
Proj00016-3UG-ALT1Societal Discount Rate Scenario		Designing	6/1/2028	2028	48	0.040871397
Proj00016-3UG-ALT1WACC Discount Rate Scenario		Designing	6/1/2028	2028	48	0.040871397
Proj00016-3UG-PASHybrid Discount Rate Scenario		Scoping	8/7/2028	2028	55	0.040871397
Proj00016-3UG-PASSocietal Discount Rate Scenario		Scoping	8/7/2028	2028	55	0.040871397
Proj00016-3UG-PASWACC Discount Rate Scenario		Scoping	8/7/2028	2028	55	0.040871397
Proj00016-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	12/26/2028	2028	55	0.002226806
Proj00016-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	12/26/2028	2028	55	0.002226806
Proj00016-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	12/26/2028	2028	55	0.002226806
Proj00017-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.080566102
Proj00017-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.080566102
Proj00017-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.080566102
Proj00017-3UG-PASHybrid Discount Rate Scenario			11/29/2028	2028	55	0.080566102
Proj00017-3UG-PASSocietal Discount Rate Scenario			11/29/2028	2028	55	0.080566102
Proj00017-3UG-PASWACC Discount Rate Scenario			11/29/2028	2028	55	0.080566102
Proj00017-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Designing	11/2/2028	2028	55	0.032549985
Proj00017-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Designing	11/2/2028	2028	55	0.032549985
Proj00017-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Designing	11/2/2028	2028	55	0.032549985
Proj00018-3UG-ALT1Hybrid Discount Rate Scenario		Scoping	12/26/2028	2028	48	0.022617177
Proj00018-3UG-ALT1Societal Discount Rate Scenario		Scoping	12/26/2028	2028	48	0.022617177
Proj00018-3UG-ALT1WACC Discount Rate Scenario		Scoping	12/26/2028	2028	48	0.022617177
Proj00018-3UG-PASHybrid Discount Rate Scenario			8/15/2028	2028	55	0.022617177
Proj00018-3UG-PASSocietal Discount Rate Scenario			8/15/2028	2028	55	0.022617177
Proj00018-3UG-PASWACC Discount Rate Scenario			8/15/2028	2028	55	0.022617177

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sorter	undergrounding_mitigation_justification2	status	used_and_useful_date	bcr_year_zero	useful_life	ignition_pre_mitigated_likelihood
Proj00018-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Designing	12/13/2028	2028	55	0.020171127
Proj00018-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Designing	12/13/2028	2028	55	0.020171127
Proj00018-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Designing	12/13/2028	2028	55	0.020171127
Proj00019-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.087050782
Proj00019-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.087050782
Proj00019-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.087050782
Proj00019-3UG-PASHybrid Discount Rate Scenario		Scoping	10/30/2028	2028	55	0.087050782
Proj00019-3UG-PASSocietal Discount Rate Scenario		Scoping	10/30/2028	2028	55	0.087050782
Proj00019-3UG-PASWACC Discount Rate Scenario		Scoping	10/30/2028	2028	55	0.087050782
Proj00019-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	11/27/2028	2028	55	0.087050782
Proj00019-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	11/27/2028	2028	55	0.087050782
Proj00019-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on BCR within 30% of Highest BCR from Screen 3 Alternatives	Scoping	11/27/2028	2028	55	0.087050782
Proj00020-3UG-ALT1Hybrid Discount Rate Scenario		Designing	12/11/2028	2028	48	0.060034002
Proj00020-3UG-ALT1Societal Discount Rate Scenario		Designing	12/11/2028	2028	48	0.060034002
Proj00020-3UG-ALT1WACC Discount Rate Scenario		Designing	12/11/2028	2028	48	0.060034002
Proj00020-3UG-PASHybrid Discount Rate Scenario			7/3/2028	2028	55	0.060034002
Proj00020-3UG-PASSocietal Discount Rate Scenario			7/3/2028	2028	55	0.060034002
Proj00020-3UG-PASWACC Discount Rate Scenario			7/3/2028	2028	55	0.060034002
Proj00020-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	7/3/2028	2028	55	0.060034002
Proj00020-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	7/3/2028	2028	55	0.060034002
Proj00020-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	7/3/2028	2028	55	0.060034002
Proj00021-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.031880978
Proj00021-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.031880978
Proj00021-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.031880978
Proj00021-3UG-PASHybrid Discount Rate Scenario		Permitting	3/13/2029	2028	55	0.031880978
Proj00021-3UG-PASSocietal Discount Rate Scenario		Permitting	8/2/2028	2028	55	0.031880978
Proj00021-3UG-PASWACC Discount Rate Scenario		Permitting	8/2/2028	2028	55	0.031880978
Proj00021-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	3/13/2029	2028	55	0.031880978
Proj00021-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	3/13/2029	2028	55	0.031880978
Proj00021-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	3/13/2029	2028	55	0.031880978
Proj00022-3UG-ALT1Hybrid Discount Rate Scenario		Scoping	8/24/2028	2028	48	0.007439318
Proj00022-3UG-ALT1Societal Discount Rate Scenario		Scoping	8/24/2028	2028	48	0.007439318
Proj00022-3UG-ALT1WACC Discount Rate Scenario		Scoping	8/24/2028	2028	48	0.007439318
Proj00022-3UG-PASHybrid Discount Rate Scenario		Scoping	8/8/2028	2028	55	0.007439318
Proj00022-3UG-PASSocietal Discount Rate Scenario		Scoping	8/8/2028	2028	55	0.007439318
Proj00022-3UG-PASWACC Discount Rate Scenario		Scoping	8/8/2028	2028	55	0.007439318
Proj00022-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Designing	5/1/2028	2028	55	0.000863839
Proj00022-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Designing	5/1/2028	2028	55	0.000863839
Proj00022-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Designing	5/1/2028	2028	55	0.000863839
Proj00023-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.059927617
Proj00023-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.059927617
Proj00023-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.059927617
Proj00023-3UG-PASHybrid Discount Rate Scenario			11/30/2028	2028	55	0.059927617
Proj00023-3UG-PASSocietal Discount Rate Scenario			11/30/2028	2028	55	0.059927617
Proj00023-3UG-PASWACC Discount Rate Scenario			11/30/2028	2028	55	0.059927617
Proj00023-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	12/26/2028	2028	55	0.059450991
Proj00023-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	12/26/2028	2028	55	0.059450991
Proj00023-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	12/26/2028	2028	55	0.059450991
Proj00024-3UG-ALT1Hybrid Discount Rate Scenario		Scoping	7/3/2028	2028	48	0.006035938
Proj00024-3UG-ALT1Societal Discount Rate Scenario		Scoping	7/3/2028	2028	48	0.006035938
Proj00024-3UG-ALT1WACC Discount Rate Scenario		Scoping	7/3/2028	2028	48	0.006035938
Proj00024-3UG-PASHybrid Discount Rate Scenario			11/16/2028	2028	55	0.006035938
Proj00024-3UG-PASSocietal Discount Rate Scenario			11/16/2028	2028	55	0.006035938
Proj00024-3UG-PASWACC Discount Rate Scenario			11/16/2028	2028	55	0.006035938
Proj00024-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Designing	12/11/2028	2028	55	0.006035938
Proj00024-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Designing	12/11/2028	2028	55	0.006035938
Proj00024-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Designing	12/11/2028	2028	55	0.006035938
Proj00025-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.029321136
Proj00025-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.029321136
Proj00025-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.029321136
Proj00025-3UG-PASHybrid Discount Rate Scenario		Designing	11/8/2028	2028	55	0.029321136
Proj00025-3UG-PASSocietal Discount Rate Scenario		Designing	11/8/2028	2028	55	0.029321136
Proj00025-3UG-PASWACC Discount Rate Scenario		Designing	11/8/2028	2028	55	0.029321136
Proj00025-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Scoping	8/24/2028	2028	55	0.029321136
Proj00025-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Scoping	8/24/2028	2028	55	0.029321136
Proj00025-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Operational Feasibility Requirements	Scoping	8/24/2028	2028	55	0.029321136
Proj00026-3UG-ALT1Hybrid Discount Rate Scenario		Designing	9/1/2028	2028	48	0.031928444
Proj00026-3UG-ALT1Societal Discount Rate Scenario		Designing	9/1/2028	2028	48	0.031928444
Proj00026-3UG-ALT1WACC Discount Rate Scenario		Designing	9/1/2028	2028	48	0.031928444
Proj00026-3UG-PASHybrid Discount Rate Scenario			7/3/2028	2028	55	0.031928444
Proj00026-3UG-PASSocietal Discount Rate Scenario			7/3/2028	2028	55	0.031928444
Proj00026-3UG-PASWACC Discount Rate Scenario			7/3/2028	2028	55	0.031928444
Proj00026-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	7/3/2028	2028	55	0.031928444
Proj00026-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	7/3/2028	2028	55	0.031928444
Proj00026-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	7/3/2028	2028	55	0.031928444
Proj00027-3UG-ALT1Hybrid Discount Rate Scenario				2028	48	0.024724523
Proj00027-3UG-ALT1Societal Discount Rate Scenario				2028	48	0.024724523
Proj00027-3UG-ALT1WACC Discount Rate Scenario				2028	48	0.024724523
Proj00027-3UG-PASHybrid Discount Rate Scenario		Permitting	12/11/2028	2028	55	0.024724523
Proj00027-3UG-PASSocietal Discount Rate Scenario		Permitting	12/11/2028	2028	55	0.024724523
Proj00027-3UG-PASWACC Discount Rate Scenario		Permitting	12/11/2028	2028	55	0.024724523
Proj00027-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Designing	9/1/2028	2028	55	0.024724523
Proj00027-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Designing	9/1/2028	2028	55	0.024724523
Proj00027-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Designing	9/1/2028	2028	55	0.024724523
Proj00028-3UG-ALT1Hybrid Discount Rate Scenario		Designing	11/3/2028	2028	48	0.006035973
Proj00028-3UG-ALT1Societal Discount Rate Scenario		Designing	11/3/2028	2028	48	0.006035973
Proj00028-3UG-ALT1WACC Discount Rate Scenario		Designing	11/3/2028	2028	48	0.006035973
Proj00028-3UG-PASHybrid Discount Rate Scenario		Scoping	7/10/2028	2028	55	0.006035973
Proj00028-3UG-PASSocietal Discount Rate Scenario		Scoping	7/10/2028	2028	55	0.006035973
Proj00028-3UG-PASWACC Discount Rate Scenario		Scoping	7/10/2028	2028	55	0.006035973
Proj00028-3UG-UGASHybrid Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	11/3/2028	2028	55	0.004792895
Proj00028-3UG-UGASSocietal Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	11/3/2028	2028	55	0.004792895
Proj00028-3UG-UGASWACC Discount Rate Scenario	Subprojects are created to separate mitigation types when the economic decision warrants | Project selected based on Highest BCR	Scoping	11/3/2028	2028	55	0.004792895

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sorter	ignition_pre_mitigated_safety_consequences	ignition_pre_mitigated_residential_reliability_consequences	ignition_pre_mitigated_non_residential_reliability_consequences	ignition_pre_mitigated_financial_consequences
Proj00001-3UG-ALT1Hybrid Discount Rate Scenario	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-ALT1Societal Discount Rate Scenario	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-ALT1WACC Discount Rate Scenario	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-PASHybrid Discount Rate Scenario	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-PASSocietal Discount Rate Scenario	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-PASWACC Discount Rate Scenario	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-UGASHybrid Discount Rate Scenario	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-UGASSocietal Discount Rate Scenario	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-UGASWACC Discount Rate Scenario	0.20907354	0.015947042	1.20138439	2.319465716
Proj00002-3UG-ALT1Hybrid Discount Rate Scenario	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-ALT1Societal Discount Rate Scenario	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-ALT1WACC Discount Rate Scenario	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-PASHybrid Discount Rate Scenario	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-PASSocietal Discount Rate Scenario	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-PASWACC Discount Rate Scenario	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-UGASHybrid Discount Rate Scenario	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-UGASSocietal Discount Rate Scenario	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-UGASWACC Discount Rate Scenario	0.248861446	0.018981856	1.430014799	2.760873478
Proj00003-3UG-ALT1Hybrid Discount Rate Scenario	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-ALT1Societal Discount Rate Scenario	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-ALT1WACC Discount Rate Scenario	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-PASHybrid Discount Rate Scenario	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-PASSocietal Discount Rate Scenario	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-PASWACC Discount Rate Scenario	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-UGASHybrid Discount Rate Scenario	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-UGASSocietal Discount Rate Scenario	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-UGASWACC Discount Rate Scenario	0.345171644	0.026327897	1.983435233	3.8293406
Proj00004-3UG-ALT1Hybrid Discount Rate Scenario	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-ALT1Societal Discount Rate Scenario	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-ALT1WACC Discount Rate Scenario	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-PASHybrid Discount Rate Scenario	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-PASSocietal Discount Rate Scenario	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-PASWACC Discount Rate Scenario	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-UGASHybrid Discount Rate Scenario	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-UGASSocietal Discount Rate Scenario	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-UGASWACC Discount Rate Scenario	1.634349235	0.124659656	9.391344592	18.13150061
Proj00005-3UG-ALT1Hybrid Discount Rate Scenario	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-ALT1Societal Discount Rate Scenario	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-ALT1WACC Discount Rate Scenario	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-PASHybrid Discount Rate Scenario	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-PASSocietal Discount Rate Scenario	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-PASWACC Discount Rate Scenario	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-UGASHybrid Discount Rate Scenario	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-UGASSocietal Discount Rate Scenario	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-UGASWACC Discount Rate Scenario	0.639423905	0.048771928	3.674276036	7.093780613
Proj00006-3UG-ALT1Hybrid Discount Rate Scenario	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-ALT1Societal Discount Rate Scenario	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-ALT1WACC Discount Rate Scenario	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-PASHybrid Discount Rate Scenario	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-PASSocietal Discount Rate Scenario	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-PASWACC Discount Rate Scenario	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-UGASHybrid Discount Rate Scenario	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-UGASSocietal Discount Rate Scenario	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-UGASWACC Discount Rate Scenario	0.387692067	0.029571134	2.227767307	4.301062951
Proj00007-3UG-ALT1Hybrid Discount Rate Scenario	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-ALT1Societal Discount Rate Scenario	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-ALT1WACC Discount Rate Scenario	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-PASHybrid Discount Rate Scenario	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-PASSocietal Discount Rate Scenario	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-PASWACC Discount Rate Scenario	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-UGASHybrid Discount Rate Scenario	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-UGASSocietal Discount Rate Scenario	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-UGASWACC Discount Rate Scenario	2.708287253	0.20657406	15.56243812	30.04578882
Proj00008-3UG-ALT1Hybrid Discount Rate Scenario	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-ALT1Societal Discount Rate Scenario	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-ALT1WACC Discount Rate Scenario	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-PASHybrid Discount Rate Scenario	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-PASSocietal Discount Rate Scenario	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-PASWACC Discount Rate Scenario	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-UGASHybrid Discount Rate Scenario	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-UGASSocietal Discount Rate Scenario	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-UGASWACC Discount Rate Scenario	3.642677634	0.277844496	20.93165901	40.41193297
Proj00009-3UG-ALT1Hybrid Discount Rate Scenario	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-ALT1Societal Discount Rate Scenario	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-ALT1WACC Discount Rate Scenario	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-PASHybrid Discount Rate Scenario	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-PASSocietal Discount Rate Scenario	0.236931314	0.018071888	1.361461534	2.628520378

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sorter	ignition_pre_mitigated_safety_consequences	ignition_pre_mitigated_residential_reliability_consequences	ignition_pre_mitigated_non_residential_reliability_consequences	ignition_pre_mitigated_financial_consequences
Proj00009-3UG-PASWACC Discount Rate Scenario	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-UGAShybrid Discount Rate Scenario	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-UGASSocietal Discount Rate Scenario	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-UGASWACC Discount Rate Scenario	0.236931314	0.018071888	1.361461534	2.628520378
Proj00010-3UG-ALT1Hybrid Discount Rate Scenario	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-ALT1Societal Discount Rate Scenario	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-ALT1WACC Discount Rate Scenario	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-PASHybrid Discount Rate Scenario	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-PASSocietal Discount Rate Scenario	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-PASWACC Discount Rate Scenario	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-UGAShybrid Discount Rate Scenario	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-UGASSocietal Discount Rate Scenario	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-UGASWACC Discount Rate Scenario	0.135632257	0.010345323	0.779373975	1.504706761
Proj00011-3UG-ALT1Hybrid Discount Rate Scenario	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-ALT1Societal Discount Rate Scenario	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-ALT1WACC Discount Rate Scenario	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-PASHybrid Discount Rate Scenario	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-PASSocietal Discount Rate Scenario	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-PASWACC Discount Rate Scenario	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-UGAShybrid Discount Rate Scenario	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-UGASSocietal Discount Rate Scenario	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-UGASWACC Discount Rate Scenario	0.305071258	0.023269248	1.753009238	3.384466171
Proj00012-3UG-ALT1Hybrid Discount Rate Scenario	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-ALT1Societal Discount Rate Scenario	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-ALT1WACC Discount Rate Scenario	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-PASHybrid Discount Rate Scenario	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-PASSocietal Discount Rate Scenario	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-PASWACC Discount Rate Scenario	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-UGAShybrid Discount Rate Scenario	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-UGASSocietal Discount Rate Scenario	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-UGASWACC Discount Rate Scenario	0.3177241	0.024234341	1.825715361	3.52483703
Proj00013-3UG-ALT1Hybrid Discount Rate Scenario	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-ALT1Societal Discount Rate Scenario	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-ALT1WACC Discount Rate Scenario	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-PASHybrid Discount Rate Scenario	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-PASSocietal Discount Rate Scenario	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-PASWACC Discount Rate Scenario	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-UGAShybrid Discount Rate Scenario	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-UGASSocietal Discount Rate Scenario	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-UGASWACC Discount Rate Scenario	0.141865896	0.010820792	0.815193894	1.573862873
Proj00014-3UG-ALT1Hybrid Discount Rate Scenario	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-ALT1Societal Discount Rate Scenario	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-ALT1WACC Discount Rate Scenario	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-PASHybrid Discount Rate Scenario	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-PASSocietal Discount Rate Scenario	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-PASWACC Discount Rate Scenario	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-UGAShybrid Discount Rate Scenario	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-UGASSocietal Discount Rate Scenario	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-UGASWACC Discount Rate Scenario	0.605269929	0.046166841	3.478019478	6.714875776
Proj00015-3UG-ALT1Hybrid Discount Rate Scenario	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-ALT1Societal Discount Rate Scenario	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-ALT1WACC Discount Rate Scenario	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-PASHybrid Discount Rate Scenario	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-PASSocietal Discount Rate Scenario	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-PASWACC Discount Rate Scenario	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-UGAShybrid Discount Rate Scenario	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-UGASSocietal Discount Rate Scenario	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-UGASWACC Discount Rate Scenario	2.693456185	0.205442823	15.47721541	29.88125268
Proj00016-3UG-ALT1Hybrid Discount Rate Scenario	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-ALT1Societal Discount Rate Scenario	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-ALT1WACC Discount Rate Scenario	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-PASHybrid Discount Rate Scenario	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-PASSocietal Discount Rate Scenario	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-PASWACC Discount Rate Scenario	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-UGAShybrid Discount Rate Scenario	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-UGASSocietal Discount Rate Scenario	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-UGASWACC Discount Rate Scenario	2.766387628	0.211005654	15.89629617	30.69035545
Proj00017-3UG-ALT1Hybrid Discount Rate Scenario	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-ALT1Societal Discount Rate Scenario	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-ALT1WACC Discount Rate Scenario	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-PASHybrid Discount Rate Scenario	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-PASSocietal Discount Rate Scenario	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-PASWACC Discount Rate Scenario	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-UGAShybrid Discount Rate Scenario	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-UGASSocietal Discount Rate Scenario	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-UGASWACC Discount Rate Scenario	0.144541341	0.011024861	0.830567612	1.603544308
Proj00018-3UG-ALT1Hybrid Discount Rate Scenario	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-ALT1Societal Discount Rate Scenario	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-ALT1WACC Discount Rate Scenario	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-PASHybrid Discount Rate Scenario	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-PASSocietal Discount Rate Scenario	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-PASWACC Discount Rate Scenario	0.126435696	0.009643857	0.726528433	1.402679947

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sorter	ignition_pre_mitigated_safety_consequences	ignition_pre_mitigated_residential_reliability_consequences	ignition_pre_mitigated_non_residential_reliability_consequences	ignition_pre_mitigated_financial_consequences
Proj00018-3UG-UGASHybrid Discount Rate Scenario	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-UGASSocietal Discount Rate Scenario	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-UGASWACC Discount Rate Scenario	0.126435696	0.009643857	0.726528433	1.402679947
Proj00019-3UG-ALT1Hybrid Discount Rate Scenario	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-ALT1Societal Discount Rate Scenario	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-ALT1WACC Discount Rate Scenario	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-PASHybrid Discount Rate Scenario	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-PASSocietal Discount Rate Scenario	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-PASWACC Discount Rate Scenario	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-UGASHybrid Discount Rate Scenario	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-UGASSocietal Discount Rate Scenario	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-UGASWACC Discount Rate Scenario	0.215676126	0.016450653	1.239324361	2.392714929
Proj00020-3UG-ALT1Hybrid Discount Rate Scenario	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-ALT1Societal Discount Rate Scenario	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-ALT1WACC Discount Rate Scenario	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-PASHybrid Discount Rate Scenario	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-PASSocietal Discount Rate Scenario	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-PASWACC Discount Rate Scenario	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-UGASHybrid Discount Rate Scenario	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-UGASSocietal Discount Rate Scenario	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-UGASWACC Discount Rate Scenario	0.148893156	0.011356795	0.855574135	1.651823421
Proj00021-3UG-ALT1Hybrid Discount Rate Scenario	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-ALT1Societal Discount Rate Scenario	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-ALT1WACC Discount Rate Scenario	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-PASHybrid Discount Rate Scenario	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-PASSocietal Discount Rate Scenario	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-PASWACC Discount Rate Scenario	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-UGASHybrid Discount Rate Scenario	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-UGASSocietal Discount Rate Scenario	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-UGASWACC Discount Rate Scenario	2.980351373	0.227325695	17.1257808	33.06407319
Proj00022-3UG-ALT1Hybrid Discount Rate Scenario	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-ALT1Societal Discount Rate Scenario	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-ALT1WACC Discount Rate Scenario	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-PASHybrid Discount Rate Scenario	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-PASSocietal Discount Rate Scenario	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-PASWACC Discount Rate Scenario	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-UGASHybrid Discount Rate Scenario	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-UGASSocietal Discount Rate Scenario	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-UGASWACC Discount Rate Scenario	1.828139979	0.139441005	10.50491054	20.2814187
Proj00023-3UG-ALT1Hybrid Discount Rate Scenario	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-ALT1Societal Discount Rate Scenario	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-ALT1WACC Discount Rate Scenario	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-PASHybrid Discount Rate Scenario	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-PASSocietal Discount Rate Scenario	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-PASWACC Discount Rate Scenario	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-UGASHybrid Discount Rate Scenario	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-UGASSocietal Discount Rate Scenario	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-UGASWACC Discount Rate Scenario	2.051081319	0.156445811	11.78598248	22.75473404
Proj00024-3UG-ALT1Hybrid Discount Rate Scenario	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-ALT1Societal Discount Rate Scenario	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-ALT1WACC Discount Rate Scenario	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-PASHybrid Discount Rate Scenario	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-PASSocietal Discount Rate Scenario	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-PASWACC Discount Rate Scenario	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-UGASHybrid Discount Rate Scenario	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-UGASSocietal Discount Rate Scenario	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-UGASWACC Discount Rate Scenario	0.273972814	0.020897221	1.574310465	3.03945946
Proj00025-3UG-ALT1Hybrid Discount Rate Scenario	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-ALT1Societal Discount Rate Scenario	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-ALT1WACC Discount Rate Scenario	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-PASHybrid Discount Rate Scenario	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-PASSocietal Discount Rate Scenario	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-PASWACC Discount Rate Scenario	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-UGASHybrid Discount Rate Scenario	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-UGASSocietal Discount Rate Scenario	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-UGASWACC Discount Rate Scenario	0.526675137	0.040172039	3.026395821	5.842943697
Proj00026-3UG-ALT1Hybrid Discount Rate Scenario	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-ALT1Societal Discount Rate Scenario	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-ALT1WACC Discount Rate Scenario	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-PASHybrid Discount Rate Scenario	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-PASSocietal Discount Rate Scenario	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-PASWACC Discount Rate Scenario	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-UGASHybrid Discount Rate Scenario	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-UGASSocietal Discount Rate Scenario	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-UGASWACC Discount Rate Scenario	0.197686047	0.015078463	1.135949251	2.19313266
Proj00027-3UG-ALT1Hybrid Discount Rate Scenario	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-ALT1Societal Discount Rate Scenario	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-ALT1WACC Discount Rate Scenario	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-PASHybrid Discount Rate Scenario	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-PASSocietal Discount Rate Scenario	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-PASWACC Discount Rate Scenario	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-UGASHybrid Discount Rate Scenario	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-UGASSocietal Discount Rate Scenario	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-UGASWACC Discount Rate Scenario	0.76135095	0.058071889	4.374896729	8.446441502
Proj00028-3UG-ALT1Hybrid Discount Rate Scenario	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-ALT1Societal Discount Rate Scenario	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-ALT1WACC Discount Rate Scenario	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-PASHybrid Discount Rate Scenario	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-PASSocietal Discount Rate Scenario	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-PASWACC Discount Rate Scenario	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-UGASHybrid Discount Rate Scenario	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-UGASSocietal Discount Rate Scenario	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-UGASWACC Discount Rate Scenario	1.231320984	0.093918758	7.075452062	13.66029775

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sorter	ignition_post_mitigated_likelihood	ignition_post_mitigated_safety_consequences	ignition_post_mitigated_residential_reliability_consequences	ignition_post_mitigated_non_residential_reliability_consequences	ignition_post_mitigated_financial_consequences
Proj00001-3UG-ALT1Hybrid Discount Rate Scenario	0.021221899	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-ALT1Societal Discount Rate Scenario	0.021221899	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-ALT1WACC Discount Rate Scenario	0.021221899	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-PASHybrid Discount Rate Scenario	0.002448327	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-PASSocietal Discount Rate Scenario	0.002448327	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-PASWACC Discount Rate Scenario	0.002448327	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-UGASHybrid Discount Rate Scenario	0.002489707	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-UGASSocietal Discount Rate Scenario	0.002489707	0.20907354	0.015947042	1.20138439	2.319465716
Proj00001-3UG-UGASWACC Discount Rate Scenario	0.002489707	0.20907354	0.015947042	1.20138439	2.319465716
Proj00002-3UG-ALT1Hybrid Discount Rate Scenario	0.01458276	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-ALT1Societal Discount Rate Scenario	0.01458276	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-ALT1WACC Discount Rate Scenario	0.01458276	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-PASHybrid Discount Rate Scenario	0.009472083	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-PASSocietal Discount Rate Scenario	0.009472083	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-PASWACC Discount Rate Scenario	0.009472083	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-UGASHybrid Discount Rate Scenario	0.001171718	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-UGASSocietal Discount Rate Scenario	0.001171718	0.248861446	0.018981856	1.430014799	2.760873478
Proj00002-3UG-UGASWACC Discount Rate Scenario	0.001171718	0.248861446	0.018981856	1.430014799	2.760873478
Proj00003-3UG-ALT1Hybrid Discount Rate Scenario	0.022202252	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-ALT1Societal Discount Rate Scenario	0.022202252	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-ALT1WACC Discount Rate Scenario	0.022202252	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-PASHybrid Discount Rate Scenario	0.005698435	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-PASSocietal Discount Rate Scenario	0.005698435	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-PASWACC Discount Rate Scenario	0.005698435	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-UGASHybrid Discount Rate Scenario	0.003081431	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-UGASSocietal Discount Rate Scenario	0.003081431	0.345171644	0.026327897	1.983435233	3.8293406
Proj00003-3UG-UGASWACC Discount Rate Scenario	0.003081431	0.345171644	0.026327897	1.983435233	3.8293406
Proj00004-3UG-ALT1Hybrid Discount Rate Scenario	0.000819263	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-ALT1Societal Discount Rate Scenario	0.000819263	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-ALT1WACC Discount Rate Scenario	0.000819263	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-PASHybrid Discount Rate Scenario	8.38E-05	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-PASSocietal Discount Rate Scenario	8.38E-05	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-PASWACC Discount Rate Scenario	8.38E-05	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-UGASHybrid Discount Rate Scenario	7.62E-05	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-UGASSocietal Discount Rate Scenario	7.62E-05	1.634349235	0.124659656	9.391344592	18.13150061
Proj00004-3UG-UGASWACC Discount Rate Scenario	7.62E-05	1.634349235	0.124659656	9.391344592	18.13150061
Proj00005-3UG-ALT1Hybrid Discount Rate Scenario	0.006319724	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-ALT1Societal Discount Rate Scenario	0.006319724	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-ALT1WACC Discount Rate Scenario	0.006319724	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-PASHybrid Discount Rate Scenario	0.00070538	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-PASSocietal Discount Rate Scenario	0.00070538	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-PASWACC Discount Rate Scenario	0.00070538	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-UGASHybrid Discount Rate Scenario	0.000713912	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-UGASSocietal Discount Rate Scenario	0.000713912	0.639423905	0.048771928	3.674276036	7.093780613
Proj00005-3UG-UGASWACC Discount Rate Scenario	0.000713912	0.639423905	0.048771928	3.674276036	7.093780613
Proj00006-3UG-ALT1Hybrid Discount Rate Scenario	0.007371348	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-ALT1Societal Discount Rate Scenario	0.007371348	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-ALT1WACC Discount Rate Scenario	0.007371348	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-PASHybrid Discount Rate Scenario	0.003741138	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-PASSocietal Discount Rate Scenario	0.003741138	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-PASWACC Discount Rate Scenario	0.003741138	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-UGASHybrid Discount Rate Scenario	0.00049237	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-UGASSocietal Discount Rate Scenario	0.00049237	0.387692067	0.029571134	2.227767307	4.301062951
Proj00006-3UG-UGASWACC Discount Rate Scenario	0.00049237	0.387692067	0.029571134	2.227767307	4.301062951
Proj00007-3UG-ALT1Hybrid Discount Rate Scenario	0.007083777	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-ALT1Societal Discount Rate Scenario	0.007083777	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-ALT1WACC Discount Rate Scenario	0.007083777	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-PASHybrid Discount Rate Scenario	0.00618217	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-PASSocietal Discount Rate Scenario	0.00618217	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-PASWACC Discount Rate Scenario	0.00618217	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-UGASHybrid Discount Rate Scenario	0.000102076	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-UGASSocietal Discount Rate Scenario	0.000102076	2.708287253	0.20657406	15.56243812	30.04578882
Proj00007-3UG-UGASWACC Discount Rate Scenario	0.000102076	2.708287253	0.20657406	15.56243812	30.04578882
Proj00008-3UG-ALT1Hybrid Discount Rate Scenario	0.015603614	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-ALT1Societal Discount Rate Scenario	0.015603614	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-ALT1WACC Discount Rate Scenario	0.015603614	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-PASHybrid Discount Rate Scenario	0.010287227	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-PASSocietal Discount Rate Scenario	0.010287227	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-PASWACC Discount Rate Scenario	0.010287227	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-UGASHybrid Discount Rate Scenario	0.000789675	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-UGASSocietal Discount Rate Scenario	0.000789675	3.642677634	0.277844496	20.93165901	40.41193297
Proj00008-3UG-UGASWACC Discount Rate Scenario	0.000789675	3.642677634	0.277844496	20.93165901	40.41193297
Proj00009-3UG-ALT1Hybrid Discount Rate Scenario	0.037167719	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-ALT1Societal Discount Rate Scenario	0.037167719	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-ALT1WACC Discount Rate Scenario	0.037167719	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-PASHybrid Discount Rate Scenario	0.006461681	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-PASSocietal Discount Rate Scenario	0.006461681	0.236931314	0.018071888	1.361461534	2.628520378

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sorter	ignition_post_mitigated_likelihood	ignition_post_mitigated_safety_consequences	ignition_post_mitigated_residential_reliability_consequences	ignition_post_mitigated_non_residential_reliability_consequences	ignition_post_mitigated_financial_consequences
Proj00009-3UG-PASWACC Discount Rate Scenario	0.006461681	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-UGASHybrid Discount Rate Scenario	0.004063814	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-UGASSocietal Discount Rate Scenario	0.004063814	0.236931314	0.018071888	1.361461534	2.628520378
Proj00009-3UG-UGASWACC Discount Rate Scenario	0.004063814	0.236931314	0.018071888	1.361461534	2.628520378
Proj00010-3UG-ALT1Hybrid Discount Rate Scenario	0.048214359	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-ALT1Societal Discount Rate Scenario	0.048214359	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-ALT1WACC Discount Rate Scenario	0.048214359	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-PASHybrid Discount Rate Scenario	0.012204157	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-PASSocietal Discount Rate Scenario	0.012204157	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-PASWACC Discount Rate Scenario	0.012204157	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-UGASHybrid Discount Rate Scenario	0.005121054	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-UGASSocietal Discount Rate Scenario	0.005121054	0.135632257	0.010345323	0.779373975	1.504706761
Proj00010-3UG-UGASWACC Discount Rate Scenario	0.005121054	0.135632257	0.010345323	0.779373975	1.504706761
Proj00011-3UG-ALT1Hybrid Discount Rate Scenario	0.029856278	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-ALT1Societal Discount Rate Scenario	0.029856278	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-ALT1WACC Discount Rate Scenario	0.029856278	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-PASHybrid Discount Rate Scenario	0.020300447	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-PASSocietal Discount Rate Scenario	0.020300447	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-PASWACC Discount Rate Scenario	0.020300447	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-UGASHybrid Discount Rate Scenario	0.001758749	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-UGASSocietal Discount Rate Scenario	0.001758749	0.305071258	0.023269248	1.753009238	3.384466171
Proj00011-3UG-UGASWACC Discount Rate Scenario	0.001758749	0.305071258	0.023269248	1.753009238	3.384466171
Proj00012-3UG-ALT1Hybrid Discount Rate Scenario	0.021719065	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-ALT1Societal Discount Rate Scenario	0.021719065	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-ALT1WACC Discount Rate Scenario	0.021719065	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-PASHybrid Discount Rate Scenario	0.008262856	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-PASSocietal Discount Rate Scenario	0.008262856	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-PASWACC Discount Rate Scenario	0.008262856	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-UGASHybrid Discount Rate Scenario	0.002216145	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-UGASSocietal Discount Rate Scenario	0.002216145	0.3177241	0.024234341	1.825715361	3.52483703
Proj00012-3UG-UGASWACC Discount Rate Scenario	0.002216145	0.3177241	0.024234341	1.825715361	3.52483703
Proj00013-3UG-ALT1Hybrid Discount Rate Scenario	0.049924859	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-ALT1Societal Discount Rate Scenario	0.049924859	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-ALT1WACC Discount Rate Scenario	0.049924859	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-PASHybrid Discount Rate Scenario	0.005742894	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-PASSocietal Discount Rate Scenario	0.005742894	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-PASWACC Discount Rate Scenario	0.005742894	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-UGASHybrid Discount Rate Scenario	0.005762999	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-UGASSocietal Discount Rate Scenario	0.005762999	0.141865896	0.010820792	0.815193894	1.573862873
Proj00013-3UG-UGASWACC Discount Rate Scenario	0.005762999	0.141865896	0.010820792	0.815193894	1.573862873
Proj00014-3UG-ALT1Hybrid Discount Rate Scenario	0.004863607	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-ALT1Societal Discount Rate Scenario	0.004863607	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-ALT1WACC Discount Rate Scenario	0.004863607	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-PASHybrid Discount Rate Scenario	0.00057695	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-PASSocietal Discount Rate Scenario	0.00057695	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-PASWACC Discount Rate Scenario	0.00057695	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-UGASHybrid Discount Rate Scenario	0.000579785	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-UGASSocietal Discount Rate Scenario	0.000579785	0.605269929	0.046166841	3.478019478	6.714875776
Proj00014-3UG-UGASWACC Discount Rate Scenario	0.000579785	0.605269929	0.046166841	3.478019478	6.714875776
Proj00015-3UG-ALT1Hybrid Discount Rate Scenario	0.024852853	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-ALT1Societal Discount Rate Scenario	0.024852853	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-ALT1WACC Discount Rate Scenario	0.024852853	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-PASHybrid Discount Rate Scenario	0.006305614	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-PASSocietal Discount Rate Scenario	0.006305614	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-PASWACC Discount Rate Scenario	0.006305614	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-UGASHybrid Discount Rate Scenario	0.002241804	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-UGASSocietal Discount Rate Scenario	0.002241804	2.693456185	0.205442823	15.47721541	29.88125268
Proj00015-3UG-UGASWACC Discount Rate Scenario	0.002241804	2.693456185	0.205442823	15.47721541	29.88125268
Proj00016-3UG-ALT1Hybrid Discount Rate Scenario	0.022994385	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-ALT1Societal Discount Rate Scenario	0.022994385	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-ALT1WACC Discount Rate Scenario	0.022994385	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-PASHybrid Discount Rate Scenario	0.021895215	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-PASSocietal Discount Rate Scenario	0.021895215	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-PASWACC Discount Rate Scenario	0.021895215	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-UGASHybrid Discount Rate Scenario	0.000152655	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-UGASSocietal Discount Rate Scenario	0.000152655	2.766387628	0.211005654	15.89629617	30.69035545
Proj00016-3UG-UGASWACC Discount Rate Scenario	0.000152655	2.766387628	0.211005654	15.89629617	30.69035545
Proj00017-3UG-ALT1Hybrid Discount Rate Scenario	0.043006657	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-ALT1Societal Discount Rate Scenario	0.043006657	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-ALT1WACC Discount Rate Scenario	0.043006657	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-PASHybrid Discount Rate Scenario	0.027833581	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-PASSocietal Discount Rate Scenario	0.027833581	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-PASWACC Discount Rate Scenario	0.027833581	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-UGASHybrid Discount Rate Scenario	0.002229612	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-UGASSocietal Discount Rate Scenario	0.002229612	0.144541341	0.011024861	0.830567612	1.603544308
Proj00017-3UG-UGASWACC Discount Rate Scenario	0.002229612	0.144541341	0.011024861	0.830567612	1.603544308
Proj00018-3UG-ALT1Hybrid Discount Rate Scenario	0.013668731	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-ALT1Societal Discount Rate Scenario	0.013668731	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-ALT1WACC Discount Rate Scenario	0.013668731	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-PASHybrid Discount Rate Scenario	0.003687129	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-PASSocietal Discount Rate Scenario	0.003687129	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-PASWACC Discount Rate Scenario	0.003687129	0.126435696	0.009643857	0.726528433	1.402679947

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sorter	ignition_post_mitigated_likelihood	ignition_post_mitigated_safety_consequences	ignition_post_mitigated_residential_reliability_consequences	ignition_post_mitigated_non_residential_reliability_consequences	ignition_post_mitigated_financial_consequences
Proj00018-3UG-UGASHybrid Discount Rate Scenario	0.001264612	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-UGASSocietal Discount Rate Scenario	0.001264612	0.126435696	0.009643857	0.726528433	1.402679947
Proj00018-3UG-UGASWACC Discount Rate Scenario	0.001264612	0.126435696	0.009643857	0.726528433	1.402679947
Proj00019-3UG-ALT1Hybrid Discount Rate Scenario	0.047143878	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-ALT1Societal Discount Rate Scenario	0.047143878	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-ALT1WACC Discount Rate Scenario	0.047143878	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-PASHybrid Discount Rate Scenario	0.005471512	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-PASSocietal Discount Rate Scenario	0.005471512	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-PASWACC Discount Rate Scenario	0.005471512	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-UGASHybrid Discount Rate Scenario	0.005516035	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-UGASSocietal Discount Rate Scenario	0.005516035	0.215676126	0.016450653	1.239324361	2.392714929
Proj00019-3UG-UGASWACC Discount Rate Scenario	0.005516035	0.215676126	0.016450653	1.239324361	2.392714929
Proj00020-3UG-ALT1Hybrid Discount Rate Scenario	0.037320886	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-ALT1Societal Discount Rate Scenario	0.037320886	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-ALT1WACC Discount Rate Scenario	0.037320886	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-PASHybrid Discount Rate Scenario	0.003586607	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-PASSocietal Discount Rate Scenario	0.003586607	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-PASWACC Discount Rate Scenario	0.003586607	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-UGASHybrid Discount Rate Scenario	0.003646305	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-UGASSocietal Discount Rate Scenario	0.003646305	0.148893156	0.011356795	0.855574135	1.651823421
Proj00020-3UG-UGASWACC Discount Rate Scenario	0.003646305	0.148893156	0.011356795	0.855574135	1.651823421
Proj00021-3UG-ALT1Hybrid Discount Rate Scenario	0.018046728	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-ALT1Societal Discount Rate Scenario	0.018046728	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-ALT1WACC Discount Rate Scenario	0.018046728	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-PASHybrid Discount Rate Scenario	0.002285749	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-PASSocietal Discount Rate Scenario	0.002285749	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-PASWACC Discount Rate Scenario	0.002285749	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-UGASHybrid Discount Rate Scenario	0.002314351	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-UGASSocietal Discount Rate Scenario	0.002314351	2.980351373	0.227325695	17.1257808	33.06407319
Proj00021-3UG-UGASWACC Discount Rate Scenario	0.002314351	2.980351373	0.227325695	17.1257808	33.06407319
Proj00022-3UG-ALT1Hybrid Discount Rate Scenario	0.004333376	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-ALT1Societal Discount Rate Scenario	0.004333376	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-ALT1WACC Discount Rate Scenario	0.004333376	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-PASHybrid Discount Rate Scenario	0.003905178	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-PASSocietal Discount Rate Scenario	0.003905178	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-PASWACC Discount Rate Scenario	0.003905178	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-UGASHybrid Discount Rate Scenario	7.56E-05	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-UGASSocietal Discount Rate Scenario	7.56E-05	1.828139979	0.139441005	10.50491054	20.2814187
Proj00022-3UG-UGASWACC Discount Rate Scenario	7.56E-05	1.828139979	0.139441005	10.50491054	20.2814187
Proj00023-3UG-ALT1Hybrid Discount Rate Scenario	0.035929905	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-ALT1Societal Discount Rate Scenario	0.035929905	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-ALT1WACC Discount Rate Scenario	0.035929905	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-PASHybrid Discount Rate Scenario	0.004531439	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-PASSocietal Discount Rate Scenario	0.004531439	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-PASWACC Discount Rate Scenario	0.004531439	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-UGASHybrid Discount Rate Scenario	0.004299212	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-UGASSocietal Discount Rate Scenario	0.004299212	2.051081319	0.156445811	11.78598248	22.75473404
Proj00023-3UG-UGASWACC Discount Rate Scenario	0.004299212	2.051081319	0.156445811	11.78598248	22.75473404
Proj00024-3UG-ALT1Hybrid Discount Rate Scenario	0.003602912	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-ALT1Societal Discount Rate Scenario	0.003602912	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-ALT1WACC Discount Rate Scenario	0.003602912	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-PASHybrid Discount Rate Scenario	0.0003804	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-PASSocietal Discount Rate Scenario	0.0003804	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-PASWACC Discount Rate Scenario	0.0003804	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-UGASHybrid Discount Rate Scenario	0.000378623	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-UGASSocietal Discount Rate Scenario	0.000378623	0.273972814	0.020897221	1.574310465	3.03945946
Proj00024-3UG-UGASWACC Discount Rate Scenario	0.000378623	0.273972814	0.020897221	1.574310465	3.03945946
Proj00025-3UG-ALT1Hybrid Discount Rate Scenario	0.015800834	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-ALT1Societal Discount Rate Scenario	0.015800834	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-ALT1WACC Discount Rate Scenario	0.015800834	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-PASHybrid Discount Rate Scenario	0.001879402	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-PASSocietal Discount Rate Scenario	0.001879402	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-PASWACC Discount Rate Scenario	0.001879402	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-UGASHybrid Discount Rate Scenario	0.001893998	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-UGASSocietal Discount Rate Scenario	0.001893998	0.526675137	0.040172039	3.026395821	5.842943697
Proj00025-3UG-UGASWACC Discount Rate Scenario	0.001893998	0.526675137	0.040172039	3.026395821	5.842943697
Proj00026-3UG-ALT1Hybrid Discount Rate Scenario	0.020003967	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-ALT1Societal Discount Rate Scenario	0.020003967	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-ALT1WACC Discount Rate Scenario	0.020003967	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-PASHybrid Discount Rate Scenario	0.00181383	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-PASSocietal Discount Rate Scenario	0.00181383	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-PASWACC Discount Rate Scenario	0.00181383	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-UGASHybrid Discount Rate Scenario	0.0018275	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-UGASSocietal Discount Rate Scenario	0.0018275	0.197686047	0.015078463	1.135949251	2.19313266
Proj00026-3UG-UGASWACC Discount Rate Scenario	0.0018275	0.197686047	0.015078463	1.135949251	2.19313266
Proj00027-3UG-ALT1Hybrid Discount Rate Scenario	0.013800867	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-ALT1Societal Discount Rate Scenario	0.013800867	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-ALT1WACC Discount Rate Scenario	0.013800867	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-PASHybrid Discount Rate Scenario	0.001539168	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-PASSocietal Discount Rate Scenario	0.001539168	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-PASWACC Discount Rate Scenario	0.001539168	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-UGASHybrid Discount Rate Scenario	0.001524825	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-UGASSocietal Discount Rate Scenario	0.001524825	0.76135095	0.058071889	4.374896729	8.446441502
Proj00027-3UG-UGASWACC Discount Rate Scenario	0.001524825	0.76135095	0.058071889	4.374896729	8.446441502
Proj00028-3UG-ALT1Hybrid Discount Rate Scenario	0.004185732	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-ALT1Societal Discount Rate Scenario	0.004185732	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-ALT1WACC Discount Rate Scenario	0.004185732	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-PASHybrid Discount Rate Scenario	0.001279217	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-PASSocietal Discount Rate Scenario	0.001279217	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-PASWACC Discount Rate Scenario	0.001279217	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-UGASHybrid Discount Rate Scenario	0.000354561	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-UGASSocietal Discount Rate Scenario	0.000354561	1.231320984	0.093918758	7.075452062	13.66029775
Proj00028-3UG-UGASWACC Discount Rate Scenario	0.000354561	1.231320984	0.093918758	7.075452062	13.66029775

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sorter	outage_program_pre_mitigated_likelihood	outage_program_pre_mitigated_safety_consequences	outage_program_pre_mitigated_residential_reliability_consequences	outage_program_pre_mitigated_non_residential_reliability_consequences
Proj00001-3UG-ALT1Hybrid Discount Rate Scenario	3410.949437	2.78E-05	1.47E-05	0.001007015
Proj00001-3UG-ALT1Societal Discount Rate Scenario	3410.949437	2.78E-05	1.47E-05	0.001007015
Proj00001-3UG-ALT1WACC Discount Rate Scenario	3410.949437	2.78E-05	1.47E-05	0.001007015
Proj00001-3UG-PASHybrid Discount Rate Scenario	3410.949437	2.78E-05	1.47E-05	0.001007015
Proj00001-3UG-PASSocietal Discount Rate Scenario	3410.949437	2.78E-05	1.47E-05	0.001007015
Proj00001-3UG-PASWACC Discount Rate Scenario	3410.949437	2.78E-05	1.47E-05	0.001007015
Proj00001-3UG-UGASHybrid Discount Rate Scenario	3313.172825	2.78E-05	1.47E-05	0.001007015
Proj00001-3UG-UGASSocietal Discount Rate Scenario	3313.172825	2.78E-05	1.47E-05	0.001007015
Proj00001-3UG-UGASWACC Discount Rate Scenario	3313.172825	2.78E-05	1.47E-05	0.001007015
Proj00002-3UG-ALT1Hybrid Discount Rate Scenario	324.3914932		0.000257369	0.005267008
Proj00002-3UG-ALT1Societal Discount Rate Scenario	324.3914932		0.000257369	0.005267008
Proj00002-3UG-ALT1WACC Discount Rate Scenario	324.3914932		0.000257369	0.005267008
Proj00002-3UG-PASHybrid Discount Rate Scenario	324.3914932		0.000257369	0.005267008
Proj00002-3UG-PASSocietal Discount Rate Scenario	324.3914932		0.000257369	0.005267008
Proj00002-3UG-PASWACC Discount Rate Scenario	324.3914932		0.000257369	0.005267008
Proj00002-3UG-UGASHybrid Discount Rate Scenario			0.000257369	0.005267008
Proj00002-3UG-UGASSocietal Discount Rate Scenario			0.000257369	0.005267008
Proj00002-3UG-UGASWACC Discount Rate Scenario			0.000257369	0.005267008
Proj00003-3UG-ALT1Hybrid Discount Rate Scenario	3657.05198	3.94E-05	2.85E-05	0.001252914
Proj00003-3UG-ALT1Societal Discount Rate Scenario	3657.05198	3.94E-05	2.85E-05	0.001252914
Proj00003-3UG-ALT1WACC Discount Rate Scenario	3657.05198	3.94E-05	2.85E-05	0.001252914
Proj00003-3UG-PASHybrid Discount Rate Scenario	3657.05198	3.94E-05	2.85E-05	0.001252914
Proj00003-3UG-PASSocietal Discount Rate Scenario	3657.05198	3.94E-05	2.85E-05	0.001252914
Proj00003-3UG-PASWACC Discount Rate Scenario	3657.05198	3.94E-05	2.85E-05	0.001252914
Proj00003-3UG-UGASHybrid Discount Rate Scenario	3412.808138	3.94E-05	2.85E-05	0.001252914
Proj00003-3UG-UGASSocietal Discount Rate Scenario	3412.808138	3.94E-05	2.85E-05	0.001252914
Proj00003-3UG-UGASWACC Discount Rate Scenario	3412.808138	3.94E-05	2.85E-05	0.001252914
Proj00004-3UG-ALT1Hybrid Discount Rate Scenario	374.3691259	3.41E-05	4.48E-06	0.000119058
Proj00004-3UG-ALT1Societal Discount Rate Scenario	374.3691259	3.41E-05	4.48E-06	0.000119058
Proj00004-3UG-ALT1WACC Discount Rate Scenario	374.3691259	3.41E-05	4.48E-06	0.000119058
Proj00004-3UG-PASHybrid Discount Rate Scenario	374.3691259	3.41E-05	4.48E-06	0.000119058
Proj00004-3UG-PASSocietal Discount Rate Scenario	374.3691259	3.41E-05	4.48E-06	0.000119058
Proj00004-3UG-PASWACC Discount Rate Scenario	374.3691259	3.41E-05	4.48E-06	0.000119058
Proj00004-3UG-UGASHybrid Discount Rate Scenario	374.3257319	3.41E-05	4.48E-06	0.000119058
Proj00004-3UG-UGASSocietal Discount Rate Scenario	374.3257319	3.41E-05	4.48E-06	0.000119058
Proj00004-3UG-UGASWACC Discount Rate Scenario	374.3257319	3.41E-05	4.48E-06	0.000119058
Proj00005-3UG-ALT1Hybrid Discount Rate Scenario	843.0066332	8.35E-06	1.85E-06	0.000303419
Proj00005-3UG-ALT1Societal Discount Rate Scenario	843.0066332	8.35E-06	1.85E-06	0.000303419
Proj00005-3UG-ALT1WACC Discount Rate Scenario	843.0066332	8.35E-06	1.85E-06	0.000303419
Proj00005-3UG-PASHybrid Discount Rate Scenario	843.0066332	8.35E-06	1.85E-06	0.000303419
Proj00005-3UG-PASSocietal Discount Rate Scenario	843.0066332	8.35E-06	1.85E-06	0.000303419
Proj00005-3UG-PASWACC Discount Rate Scenario	843.0066332	8.35E-06	1.85E-06	0.000303419
Proj00005-3UG-UGASHybrid Discount Rate Scenario	842.8730527	8.35E-06	1.85E-06	0.000303419
Proj00005-3UG-UGASSocietal Discount Rate Scenario	842.8730527	8.35E-06	1.85E-06	0.000303419
Proj00005-3UG-UGASWACC Discount Rate Scenario	842.8730527	8.35E-06	1.85E-06	0.000303419
Proj00006-3UG-ALT1Hybrid Discount Rate Scenario	1393.246218	2.50E-05	1.29E-05	0.000813814
Proj00006-3UG-ALT1Societal Discount Rate Scenario	1393.246218	2.50E-05	1.29E-05	0.000813814
Proj00006-3UG-ALT1WACC Discount Rate Scenario	1393.246218	2.50E-05	1.29E-05	0.000813814
Proj00006-3UG-PASHybrid Discount Rate Scenario	1393.246218	2.50E-05	1.29E-05	0.000813814
Proj00006-3UG-PASSocietal Discount Rate Scenario	1393.246218	2.50E-05	1.29E-05	0.000813814
Proj00006-3UG-PASWACC Discount Rate Scenario	1393.246218	2.50E-05	1.29E-05	0.000813814
Proj00006-3UG-UGASHybrid Discount Rate Scenario	638.9961751	2.50E-05	1.29E-05	0.000813814
Proj00006-3UG-UGASSocietal Discount Rate Scenario	638.9961751	2.50E-05	1.29E-05	0.000813814
Proj00006-3UG-UGASWACC Discount Rate Scenario	638.9961751	2.50E-05	1.29E-05	0.000813814
Proj00007-3UG-ALT1Hybrid Discount Rate Scenario	1121.251228	1.25E-05	8.49E-07	0.000465494
Proj00007-3UG-ALT1Societal Discount Rate Scenario	1121.251228	1.25E-05	8.49E-07	0.000465494
Proj00007-3UG-ALT1WACC Discount Rate Scenario	1121.251228	1.25E-05	8.49E-07	0.000465494
Proj00007-3UG-PASHybrid Discount Rate Scenario	1121.251228	1.25E-05	8.49E-07	0.000465494
Proj00007-3UG-PASSocietal Discount Rate Scenario	1121.251228	1.25E-05	8.49E-07	0.000465494
Proj00007-3UG-PASWACC Discount Rate Scenario	1121.251228	1.25E-05	8.49E-07	0.000465494
Proj00007-3UG-UGASHybrid Discount Rate Scenario	127.4861552	1.25E-05	8.49E-07	0.000465494
Proj00007-3UG-UGASSocietal Discount Rate Scenario	127.4861552	1.25E-05	8.49E-07	0.000465494
Proj00007-3UG-UGASWACC Discount Rate Scenario	127.4861552	1.25E-05	8.49E-07	0.000465494
Proj00008-3UG-ALT1Hybrid Discount Rate Scenario	3808.714283	1.90E-05	3.28E-07	0.000698799
Proj00008-3UG-ALT1Societal Discount Rate Scenario	3808.714283	1.90E-05	3.28E-07	0.000698799
Proj00008-3UG-ALT1WACC Discount Rate Scenario	3808.714283	1.90E-05	3.28E-07	0.000698799
Proj00008-3UG-PASHybrid Discount Rate Scenario	3808.714283	1.90E-05	3.28E-07	0.000698799
Proj00008-3UG-PASSocietal Discount Rate Scenario	3808.714283	1.90E-05	3.28E-07	0.000698799
Proj00008-3UG-PASWACC Discount Rate Scenario	3808.714283	1.90E-05	3.28E-07	0.000698799
Proj00008-3UG-UGASHybrid Discount Rate Scenario	2018.566636	1.90E-05	3.28E-07	0.000698799
Proj00008-3UG-UGASSocietal Discount Rate Scenario	2018.566636	1.90E-05	3.28E-07	0.000698799
Proj00008-3UG-UGASWACC Discount Rate Scenario	2018.566636	1.90E-05	3.28E-07	0.000698799
Proj00009-3UG-ALT1Hybrid Discount Rate Scenario	1720.982076	2.06E-05	2.78E-05	0.000788946
Proj00009-3UG-ALT1Societal Discount Rate Scenario	1720.982076	2.06E-05	2.78E-05	0.000788946
Proj00009-3UG-ALT1WACC Discount Rate Scenario	1720.982076	2.06E-05	2.78E-05	0.000788946
Proj00009-3UG-PASHybrid Discount Rate Scenario	1720.982076	2.06E-05	2.78E-05	0.000788946
Proj00009-3UG-PASSocietal Discount Rate Scenario	1720.982076	2.06E-05	2.78E-05	0.000788946

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sorter	outage_program_pre_mitigated_likelihood	outage_program_pre_mitigated_safety_consequences	outage_program_pre_mitigated_residential_reliability_consequences	outage_program_pre_mitigated_non_residential_reliability_consequences
Proj00009-3UG-PASWACC Discount Rate Scenario	1720.982076	2.06E-05	2.78E-05	0.000788946
Proj00009-3UG-UGAShybrid Discount Rate Scenario	1666.323004	2.06E-05	2.78E-05	0.000788946
Proj00009-3UG-UGASSocietal Discount Rate Scenario	1666.323004	2.06E-05	2.78E-05	0.000788946
Proj00009-3UG-UGASWACC Discount Rate Scenario	1666.323004	2.06E-05	2.78E-05	0.000788946
Proj00010-3UG-ALT1Hybrid Discount Rate Scenario	903.6831352		5.87E-05	0.001403083
Proj00010-3UG-ALT1Societal Discount Rate Scenario	903.6831352		5.87E-05	0.001403083
Proj00010-3UG-ALT1WACC Discount Rate Scenario	903.6831352		5.87E-05	0.001403083
Proj00010-3UG-PAShybrid Discount Rate Scenario	903.6831352		5.87E-05	0.001403083
Proj00010-3UG-PASSocietal Discount Rate Scenario	903.6831352		5.87E-05	0.001403083
Proj00010-3UG-PASWACC Discount Rate Scenario	903.6831352		5.87E-05	0.001403083
Proj00010-3UG-UGAShybrid Discount Rate Scenario			5.87E-05	0.001403083
Proj00010-3UG-UGASSocietal Discount Rate Scenario			5.87E-05	0.001403083
Proj00010-3UG-UGASWACC Discount Rate Scenario			5.87E-05	0.001403083
Proj00011-3UG-ALT1Hybrid Discount Rate Scenario	3439.483702	5.23E-05	2.92E-05	0.001777666
Proj00011-3UG-ALT1Societal Discount Rate Scenario	3439.483702	5.23E-05	2.92E-05	0.001777666
Proj00011-3UG-ALT1WACC Discount Rate Scenario	3439.483702	5.23E-05	2.92E-05	0.001777666
Proj00011-3UG-PAShybrid Discount Rate Scenario	3439.483702	5.23E-05	2.92E-05	0.001777666
Proj00011-3UG-PASSocietal Discount Rate Scenario	3439.483702	5.23E-05	2.92E-05	0.001777666
Proj00011-3UG-PASWACC Discount Rate Scenario	3439.483702	5.23E-05	2.92E-05	0.001777666
Proj00011-3UG-UGAShybrid Discount Rate Scenario	1956.721147	5.23E-05	2.92E-05	0.001777666
Proj00011-3UG-UGASSocietal Discount Rate Scenario	1956.721147	5.23E-05	2.92E-05	0.001777666
Proj00011-3UG-UGASWACC Discount Rate Scenario	1956.721147	5.23E-05	2.92E-05	0.001777666
Proj00012-3UG-ALT1Hybrid Discount Rate Scenario	3882.940823	1.48E-05	7.66E-06	0.000447944
Proj00012-3UG-ALT1Societal Discount Rate Scenario	3882.940823	1.48E-05	7.66E-06	0.000447944
Proj00012-3UG-ALT1WACC Discount Rate Scenario	3882.940823	1.48E-05	7.66E-06	0.000447944
Proj00012-3UG-PAShybrid Discount Rate Scenario	3882.940823	1.48E-05	7.66E-06	0.000447944
Proj00012-3UG-PASSocietal Discount Rate Scenario	3882.940823	1.48E-05	7.66E-06	0.000447944
Proj00012-3UG-PASWACC Discount Rate Scenario	3882.940823	1.48E-05	7.66E-06	0.000447944
Proj00012-3UG-UGAShybrid Discount Rate Scenario	3340.484125	1.48E-05	7.66E-06	0.000447944
Proj00012-3UG-UGASSocietal Discount Rate Scenario	3340.484125	1.48E-05	7.66E-06	0.000447944
Proj00012-3UG-UGASWACC Discount Rate Scenario	3340.484125	1.48E-05	7.66E-06	0.000447944
Proj00013-3UG-ALT1Hybrid Discount Rate Scenario	1325.549468	3.55E-05	4.87E-05	0.001502186
Proj00013-3UG-ALT1Societal Discount Rate Scenario	1325.549468	3.55E-05	4.87E-05	0.001502186
Proj00013-3UG-ALT1WACC Discount Rate Scenario	1325.549468	3.55E-05	4.87E-05	0.001502186
Proj00013-3UG-PAShybrid Discount Rate Scenario	1325.549468	3.55E-05	4.87E-05	0.001502186
Proj00013-3UG-PASSocietal Discount Rate Scenario	1325.549468	3.55E-05	4.87E-05	0.001502186
Proj00013-3UG-PASWACC Discount Rate Scenario	1325.549468	3.55E-05	4.87E-05	0.001502186
Proj00013-3UG-UGAShybrid Discount Rate Scenario	1012.494481	3.55E-05	4.87E-05	0.001502186
Proj00013-3UG-UGASSocietal Discount Rate Scenario	1012.494481	3.55E-05	4.87E-05	0.001502186
Proj00013-3UG-UGASWACC Discount Rate Scenario	1012.494481	3.55E-05	4.87E-05	0.001502186
Proj00014-3UG-ALT1Hybrid Discount Rate Scenario	75.93918898		0.00024625	0.00427329
Proj00014-3UG-ALT1Societal Discount Rate Scenario	75.93918898		0.00024625	0.00427329
Proj00014-3UG-ALT1WACC Discount Rate Scenario	75.93918898		0.00024625	0.00427329
Proj00014-3UG-PAShybrid Discount Rate Scenario	75.93918898		0.00024625	0.00427329
Proj00014-3UG-PASSocietal Discount Rate Scenario	75.93918898		0.00024625	0.00427329
Proj00014-3UG-PASWACC Discount Rate Scenario	75.93918898		0.00024625	0.00427329
Proj00014-3UG-UGAShybrid Discount Rate Scenario			0.00024625	0.00427329
Proj00014-3UG-UGASSocietal Discount Rate Scenario			0.00024625	0.00427329
Proj00014-3UG-UGASWACC Discount Rate Scenario			0.00024625	0.00427329
Proj00015-3UG-ALT1Hybrid Discount Rate Scenario	4158.88394	3.19E-05	1.52E-05	0.000825703
Proj00015-3UG-ALT1Societal Discount Rate Scenario	4158.88394	3.19E-05	1.52E-05	0.000825703
Proj00015-3UG-ALT1WACC Discount Rate Scenario	4158.88394	3.19E-05	1.52E-05	0.000825703
Proj00015-3UG-PAShybrid Discount Rate Scenario	4158.88394	3.19E-05	1.52E-05	0.000825703
Proj00015-3UG-PASSocietal Discount Rate Scenario	4158.88394	3.19E-05	1.52E-05	0.000825703
Proj00015-3UG-PASWACC Discount Rate Scenario	4158.88394	3.19E-05	1.52E-05	0.000825703
Proj00015-3UG-UGAShybrid Discount Rate Scenario	3879.416278	3.19E-05	1.52E-05	0.000825703
Proj00015-3UG-UGASSocietal Discount Rate Scenario	3879.416278	3.19E-05	1.52E-05	0.000825703
Proj00015-3UG-UGASWACC Discount Rate Scenario	3879.416278	3.19E-05	1.52E-05	0.000825703
Proj00016-3UG-ALT1Hybrid Discount Rate Scenario	388.9214214		2.02E-05	0.000305602
Proj00016-3UG-ALT1Societal Discount Rate Scenario	388.9214214		2.02E-05	0.000305602
Proj00016-3UG-ALT1WACC Discount Rate Scenario	388.9214214		2.02E-05	0.000305602
Proj00016-3UG-PAShybrid Discount Rate Scenario	388.9214214		2.02E-05	0.000305602
Proj00016-3UG-PASSocietal Discount Rate Scenario	388.9214214		2.02E-05	0.000305602
Proj00016-3UG-PASWACC Discount Rate Scenario	388.9214214		2.02E-05	0.000305602
Proj00016-3UG-UGAShybrid Discount Rate Scenario			2.02E-05	0.000305602
Proj00016-3UG-UGASSocietal Discount Rate Scenario			2.02E-05	0.000305602
Proj00016-3UG-UGASWACC Discount Rate Scenario			2.02E-05	0.000305602
Proj00017-3UG-ALT1Hybrid Discount Rate Scenario	1089.35219	4.54E-05	0.000107815	0.002724139
Proj00017-3UG-ALT1Societal Discount Rate Scenario	1089.35219	4.54E-05	0.000107815	0.002724139
Proj00017-3UG-ALT1WACC Discount Rate Scenario	1089.35219	4.54E-05	0.000107815	0.002724139
Proj00017-3UG-PAShybrid Discount Rate Scenario	1089.35219	4.54E-05	0.000107815	0.002724139
Proj00017-3UG-PASSocietal Discount Rate Scenario	1089.35219	4.54E-05	0.000107815	0.002724139
Proj00017-3UG-PASWACC Discount Rate Scenario	1089.35219	4.54E-05	0.000107815	0.002724139
Proj00017-3UG-UGAShybrid Discount Rate Scenario	769.5013648	4.54E-05	0.000107815	0.002724139
Proj00017-3UG-UGASSocietal Discount Rate Scenario	769.5013648	4.54E-05	0.000107815	0.002724139
Proj00017-3UG-UGASWACC Discount Rate Scenario	769.5013648	4.54E-05	0.000107815	0.002724139
Proj00018-3UG-ALT1Hybrid Discount Rate Scenario	913.3353501	5.43E-05	1.25E-05	0.001709971
Proj00018-3UG-ALT1Societal Discount Rate Scenario	913.3353501	5.43E-05	1.25E-05	0.001709971
Proj00018-3UG-ALT1WACC Discount Rate Scenario	913.3353501	5.43E-05	1.25E-05	0.001709971
Proj00018-3UG-PAShybrid Discount Rate Scenario	913.3353501	5.43E-05	1.25E-05	0.001709971
Proj00018-3UG-PASSocietal Discount Rate Scenario	913.3353501	5.43E-05	1.25E-05	0.001709971
Proj00018-3UG-PASWACC Discount Rate Scenario	913.3353501	5.43E-05	1.25E-05	0.001709971

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sorter	outage_program_pre_mitigated_likelihood	outage_program_pre_mitigated_safety_consequences	outage_program_pre_mitigated_residential_reliability_consequences	outage_program_pre_mitigated_non_residential_reliability_consequences
Proj00018-3UG-UGASHybrid Discount Rate Scenario	884.8840388	5.43E-05	1.25E-05	0.001709971
Proj00018-3UG-UGASSocietal Discount Rate Scenario	884.8840388	5.43E-05	1.25E-05	0.001709971
Proj00018-3UG-UGASWACC Discount Rate Scenario	884.8840388	5.43E-05	1.25E-05	0.001709971
Proj00019-3UG-ALT1Hybrid Discount Rate Scenario	1141.555531	4.95E-05	9.96E-05	0.001798369
Proj00019-3UG-ALT1Societal Discount Rate Scenario	1141.555531	4.95E-05	9.96E-05	0.001798369
Proj00019-3UG-ALT1WACC Discount Rate Scenario	1141.555531	4.95E-05	9.96E-05	0.001798369
Proj00019-3UG-PASHybrid Discount Rate Scenario	1141.555531	4.95E-05	9.96E-05	0.001798369
Proj00019-3UG-PASSocietal Discount Rate Scenario	1141.555531	4.95E-05	9.96E-05	0.001798369
Proj00019-3UG-PASWACC Discount Rate Scenario	1141.555531	4.95E-05	9.96E-05	0.001798369
Proj00019-3UG-UGASHybrid Discount Rate Scenario	1141.163381	4.95E-05	9.96E-05	0.001798369
Proj00019-3UG-UGASSocietal Discount Rate Scenario	1141.163381	4.95E-05	9.96E-05	0.001798369
Proj00019-3UG-UGASWACC Discount Rate Scenario	1141.163381	4.95E-05	9.96E-05	0.001798369
Proj00020-3UG-ALT1Hybrid Discount Rate Scenario	605.7768869		9.01E-05	0.000146689
Proj00020-3UG-ALT1Societal Discount Rate Scenario	605.7768869		9.01E-05	0.000146689
Proj00020-3UG-ALT1WACC Discount Rate Scenario	605.7768869		9.01E-05	0.000146689
Proj00020-3UG-PASHybrid Discount Rate Scenario	605.7768869		9.01E-05	0.000146689
Proj00020-3UG-PASSocietal Discount Rate Scenario	605.7768869		9.01E-05	0.000146689
Proj00020-3UG-PASWACC Discount Rate Scenario	605.7768869		9.01E-05	0.000146689
Proj00020-3UG-UGASHybrid Discount Rate Scenario			9.01E-05	0.000146689
Proj00020-3UG-UGASSocietal Discount Rate Scenario			9.01E-05	0.000146689
Proj00020-3UG-UGASWACC Discount Rate Scenario			9.01E-05	0.000146689
Proj00021-3UG-ALT1Hybrid Discount Rate Scenario	1209.027281	8.97E-06	1.54E-05	0.000353526
Proj00021-3UG-ALT1Societal Discount Rate Scenario	1209.027281	8.97E-06	1.54E-05	0.000353526
Proj00021-3UG-ALT1WACC Discount Rate Scenario	1209.027281	8.97E-06	1.54E-05	0.000353526
Proj00021-3UG-PASHybrid Discount Rate Scenario	1209.027281	8.97E-06	1.54E-05	0.000353526
Proj00021-3UG-PASSocietal Discount Rate Scenario	1209.027281	8.97E-06	1.54E-05	0.000353526
Proj00021-3UG-PASWACC Discount Rate Scenario	1209.027281	8.97E-06	1.54E-05	0.000353526
Proj00021-3UG-UGASHybrid Discount Rate Scenario	1199.994351	8.97E-06	1.54E-05	0.000353526
Proj00021-3UG-UGASSocietal Discount Rate Scenario	1199.994351	8.97E-06	1.54E-05	0.000353526
Proj00021-3UG-UGASWACC Discount Rate Scenario	1199.994351	8.97E-06	1.54E-05	0.000353526
Proj00022-3UG-ALT1Hybrid Discount Rate Scenario	59.31931545		1.97E-05	0.000152795
Proj00022-3UG-ALT1Societal Discount Rate Scenario	59.31931545		1.97E-05	0.000152795
Proj00022-3UG-ALT1WACC Discount Rate Scenario	59.31931545		1.97E-05	0.000152795
Proj00022-3UG-PASHybrid Discount Rate Scenario	59.31931545		1.97E-05	0.000152795
Proj00022-3UG-PASSocietal Discount Rate Scenario	59.31931545		1.97E-05	0.000152795
Proj00022-3UG-PASWACC Discount Rate Scenario	59.31931545		1.97E-05	0.000152795
Proj00022-3UG-UGASHybrid Discount Rate Scenario			1.97E-05	0.000152795
Proj00022-3UG-UGASSocietal Discount Rate Scenario			1.97E-05	0.000152795
Proj00022-3UG-UGASWACC Discount Rate Scenario			1.97E-05	0.000152795
Proj00023-3UG-ALT1Hybrid Discount Rate Scenario	1120.258011	4.46E-05	6.62E-05	0.003312488
Proj00023-3UG-ALT1Societal Discount Rate Scenario	1120.258011	4.46E-05	6.62E-05	0.003312488
Proj00023-3UG-ALT1WACC Discount Rate Scenario	1120.258011	4.46E-05	6.62E-05	0.003312488
Proj00023-3UG-PASHybrid Discount Rate Scenario	1120.258011	4.46E-05	6.62E-05	0.003312488
Proj00023-3UG-PASSocietal Discount Rate Scenario	1120.258011	4.46E-05	6.62E-05	0.003312488
Proj00023-3UG-PASWACC Discount Rate Scenario	1120.258011	4.46E-05	6.62E-05	0.003312488
Proj00023-3UG-UGASHybrid Discount Rate Scenario	1114.376323	4.46E-05	6.62E-05	0.003312488
Proj00023-3UG-UGASSocietal Discount Rate Scenario	1114.376323	4.46E-05	6.62E-05	0.003312488
Proj00023-3UG-UGASWACC Discount Rate Scenario	1114.376323	4.46E-05	6.62E-05	0.003312488
Proj00024-3UG-ALT1Hybrid Discount Rate Scenario	372.1575865	5.54E-06	6.04E-07	0.000204173
Proj00024-3UG-ALT1Societal Discount Rate Scenario	372.1575865	5.54E-06	6.04E-07	0.000204173
Proj00024-3UG-ALT1WACC Discount Rate Scenario	372.1575865	5.54E-06	6.04E-07	0.000204173
Proj00024-3UG-PASHybrid Discount Rate Scenario	372.1575865	5.54E-06	6.04E-07	0.000204173
Proj00024-3UG-PASSocietal Discount Rate Scenario	372.1575865	5.54E-06	6.04E-07	0.000204173
Proj00024-3UG-PASWACC Discount Rate Scenario	372.1575865	5.54E-06	6.04E-07	0.000204173
Proj00024-3UG-UGASHybrid Discount Rate Scenario	372.0792355	5.54E-06	6.04E-07	0.000204173
Proj00024-3UG-UGASSocietal Discount Rate Scenario	372.0792355	5.54E-06	6.04E-07	0.000204173
Proj00024-3UG-UGASWACC Discount Rate Scenario	372.0792355	5.54E-06	6.04E-07	0.000204173
Proj00025-3UG-ALT1Hybrid Discount Rate Scenario	48.44933764		2.57E-05	0.000269206
Proj00025-3UG-ALT1Societal Discount Rate Scenario	48.44933764		2.57E-05	0.000269206
Proj00025-3UG-ALT1WACC Discount Rate Scenario	48.44933764		2.57E-05	0.000269206
Proj00025-3UG-PASHybrid Discount Rate Scenario	48.44933764		2.57E-05	0.000269206
Proj00025-3UG-PASSocietal Discount Rate Scenario	48.44933764		2.57E-05	0.000269206
Proj00025-3UG-PASWACC Discount Rate Scenario	48.44933764		2.57E-05	0.000269206
Proj00025-3UG-UGASHybrid Discount Rate Scenario			2.57E-05	0.000269206
Proj00025-3UG-UGASSocietal Discount Rate Scenario			2.57E-05	0.000269206
Proj00025-3UG-UGASWACC Discount Rate Scenario			2.57E-05	0.000269206
Proj00026-3UG-ALT1Hybrid Discount Rate Scenario	280.2253992		6.27E-06	6.89E-05
Proj00026-3UG-ALT1Societal Discount Rate Scenario	280.2253992		6.27E-06	6.89E-05
Proj00026-3UG-ALT1WACC Discount Rate Scenario	280.2253992		6.27E-06	6.89E-05
Proj00026-3UG-PASHybrid Discount Rate Scenario	280.2253992		6.27E-06	6.89E-05
Proj00026-3UG-PASSocietal Discount Rate Scenario	280.2253992		6.27E-06	6.89E-05
Proj00026-3UG-PASWACC Discount Rate Scenario	280.2253992		6.27E-06	6.89E-05
Proj00026-3UG-UGASHybrid Discount Rate Scenario			6.27E-06	6.89E-05
Proj00026-3UG-UGASSocietal Discount Rate Scenario			6.27E-06	6.89E-05
Proj00026-3UG-UGASWACC Discount Rate Scenario			6.27E-06	6.89E-05
Proj00027-3UG-ALT1Hybrid Discount Rate Scenario	11091.54147	1.88E-05	2.22E-07	0.000247624
Proj00027-3UG-ALT1Societal Discount Rate Scenario	11091.54147	1.88E-05	2.22E-07	0.000247624
Proj00027-3UG-ALT1WACC Discount Rate Scenario	11091.54147	1.88E-05	2.22E-07	0.000247624
Proj00027-3UG-PASHybrid Discount Rate Scenario	11091.54147	1.88E-05	2.22E-07	0.000247624
Proj00027-3UG-PASSocietal Discount Rate Scenario	11091.54147	1.88E-05	2.22E-07	0.000247624
Proj00027-3UG-PASWACC Discount Rate Scenario	11091.54147	1.88E-05	2.22E-07	0.000247624
Proj00027-3UG-UGASHybrid Discount Rate Scenario	11091.01463	1.88E-05	2.22E-07	0.000247624
Proj00027-3UG-UGASSocietal Discount Rate Scenario	11091.01463	1.88E-05	2.22E-07	0.000247624
Proj00027-3UG-UGASWACC Discount Rate Scenario	11091.01463	1.88E-05	2.22E-07	0.000247624
Proj00028-3UG-ALT1Hybrid Discount Rate Scenario	8270.245107	1.59E-05	2.39E-06	0.000289132
Proj00028-3UG-ALT1Societal Discount Rate Scenario	8270.245107	1.59E-05	2.39E-06	0.000289132
Proj00028-3UG-ALT1WACC Discount Rate Scenario	8270.245107	1.59E-05	2.39E-06	0.000289132
Proj00028-3UG-PASHybrid Discount Rate Scenario	8270.245107	1.59E-05	2.39E-06	0.000289132
Proj00028-3UG-PASSocietal Discount Rate Scenario	8270.245107	1.59E-05	2.39E-06	0.000289132
Proj00028-3UG-PASWACC Discount Rate Scenario	8270.245107	1.59E-05	2.39E-06	0.000289132
Proj00028-3UG-UGASHybrid Discount Rate Scenario	7141.72616	1.59E-05	2.39E-06	0.000289132
Proj00028-3UG-UGASSocietal Discount Rate Scenario	7141.72616	1.59E-05	2.39E-06	0.000289132
Proj00028-3UG-UGASWACC Discount Rate Scenario	7141.72616	1.59E-05	2.39E-06	0.000289132

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sorter	outage_program_pre_mitigated_financial_consequences	outage_program_post_mitigated_likelihood	outage_program_post_mitigated_safety_consequences	outage_program_post_mitigated_residential_reliability_consequences
Proj00001-3UG-ALT1Hybrid Discount Rate Scenario	0	3257.461895	2.78E-05	1.47E-05
Proj00001-3UG-ALT1Societal Discount Rate Scenario	0	3257.461895	2.78E-05	1.47E-05
Proj00001-3UG-ALT1WACC Discount Rate Scenario	0	3257.461895	2.78E-05	1.47E-05
Proj00001-3UG-PASHybrid Discount Rate Scenario	0	0	2.78E-05	1.47E-05
Proj00001-3UG-PASSocietal Discount Rate Scenario	0	0	2.78E-05	1.47E-05
Proj00001-3UG-PASWACC Discount Rate Scenario	0	0	2.78E-05	1.47E-05
Proj00001-3UG-UGASHybrid Discount Rate Scenario	0	0	2.78E-05	1.47E-05
Proj00001-3UG-UGASSocietal Discount Rate Scenario	0	0	2.78E-05	1.47E-05
Proj00001-3UG-UGASWACC Discount Rate Scenario	0	0	2.78E-05	1.47E-05
Proj00002-3UG-ALT1Hybrid Discount Rate Scenario	0	229.3489084		0.000257369
Proj00002-3UG-ALT1Societal Discount Rate Scenario	0	229.3489084		0.000257369
Proj00002-3UG-ALT1WACC Discount Rate Scenario	0	229.3489084		0.000257369
Proj00002-3UG-PASHybrid Discount Rate Scenario	0	141.6172917		0.000257369
Proj00002-3UG-PASSocietal Discount Rate Scenario	0	141.6172917		0.000257369
Proj00002-3UG-PASWACC Discount Rate Scenario	0	141.6172917		0.000257369
Proj00002-3UG-UGASHybrid Discount Rate Scenario	0	0		0.000257369
Proj00002-3UG-UGASSocietal Discount Rate Scenario	0	0		0.000257369
Proj00002-3UG-UGASWACC Discount Rate Scenario	0	0		0.000257369
Proj00003-3UG-ALT1Hybrid Discount Rate Scenario	0	2834.494498	3.94E-05	2.85E-05
Proj00003-3UG-ALT1Societal Discount Rate Scenario	0	2834.494498	3.94E-05	2.85E-05
Proj00003-3UG-ALT1WACC Discount Rate Scenario	0	2834.494498	3.94E-05	2.85E-05
Proj00003-3UG-PASHybrid Discount Rate Scenario	0	251.4855447	3.94E-05	2.85E-05
Proj00003-3UG-PASSocietal Discount Rate Scenario	0	251.4855447	3.94E-05	2.85E-05
Proj00003-3UG-PASWACC Discount Rate Scenario	0	251.4855447	3.94E-05	2.85E-05
Proj00003-3UG-UGASHybrid Discount Rate Scenario	0	0	3.94E-05	2.85E-05
Proj00003-3UG-UGASSocietal Discount Rate Scenario	0	0	3.94E-05	2.85E-05
Proj00003-3UG-UGASWACC Discount Rate Scenario	0	0	3.94E-05	2.85E-05
Proj00004-3UG-ALT1Hybrid Discount Rate Scenario	0	187.55209	3.41E-05	4.48E-06
Proj00004-3UG-ALT1Societal Discount Rate Scenario	0	187.55209	3.41E-05	4.48E-06
Proj00004-3UG-ALT1WACC Discount Rate Scenario	0	187.55209	3.41E-05	4.48E-06
Proj00004-3UG-PASHybrid Discount Rate Scenario	0	2.389520227	3.41E-05	4.48E-06
Proj00004-3UG-PASSocietal Discount Rate Scenario	0	2.389520227	3.41E-05	4.48E-06
Proj00004-3UG-PASWACC Discount Rate Scenario	0	2.389520227	3.41E-05	4.48E-06
Proj00004-3UG-UGASHybrid Discount Rate Scenario	0	0	3.41E-05	4.48E-06
Proj00004-3UG-UGASSocietal Discount Rate Scenario	0	0	3.41E-05	4.48E-06
Proj00004-3UG-UGASWACC Discount Rate Scenario	0	0	3.41E-05	4.48E-06
Proj00005-3UG-ALT1Hybrid Discount Rate Scenario	0	785.285084	8.35E-06	1.85E-06
Proj00005-3UG-ALT1Societal Discount Rate Scenario	0	785.285084	8.35E-06	1.85E-06
Proj00005-3UG-ALT1WACC Discount Rate Scenario	0	785.285084	8.35E-06	1.85E-06
Proj00005-3UG-PASHybrid Discount Rate Scenario	0	0.133593598	8.35E-06	1.85E-06
Proj00005-3UG-PASSocietal Discount Rate Scenario	0	0.133593598	8.35E-06	1.85E-06
Proj00005-3UG-PASWACC Discount Rate Scenario	0	0.133593598	8.35E-06	1.85E-06
Proj00005-3UG-UGASHybrid Discount Rate Scenario	0	0	8.35E-06	1.85E-06
Proj00005-3UG-UGASSocietal Discount Rate Scenario	0	0	8.35E-06	1.85E-06
Proj00005-3UG-UGASWACC Discount Rate Scenario	0	0	8.35E-06	1.85E-06
Proj00006-3UG-ALT1Hybrid Discount Rate Scenario	0	972.963162	2.50E-05	1.29E-05
Proj00006-3UG-ALT1Societal Discount Rate Scenario	0	972.963162	2.50E-05	1.29E-05
Proj00006-3UG-ALT1WACC Discount Rate Scenario	0	972.963162	2.50E-05	1.29E-05
Proj00006-3UG-PASHybrid Discount Rate Scenario	0	395.5617359	2.50E-05	1.29E-05
Proj00006-3UG-PASSocietal Discount Rate Scenario	0	395.5617359	2.50E-05	1.29E-05
Proj00006-3UG-PASWACC Discount Rate Scenario	0	395.5617359	2.50E-05	1.29E-05
Proj00006-3UG-UGASHybrid Discount Rate Scenario	0	0	2.50E-05	1.29E-05
Proj00006-3UG-UGASSocietal Discount Rate Scenario	0	0	2.50E-05	1.29E-05
Proj00006-3UG-UGASWACC Discount Rate Scenario	0	0	2.50E-05	1.29E-05
Proj00007-3UG-ALT1Hybrid Discount Rate Scenario	0	1071.889071	1.25E-05	8.49E-07
Proj00007-3UG-ALT1Societal Discount Rate Scenario	0	1071.889071	1.25E-05	8.49E-07
Proj00007-3UG-ALT1WACC Discount Rate Scenario	0	1071.889071	1.25E-05	8.49E-07
Proj00007-3UG-PASHybrid Discount Rate Scenario	0	953.1857103	1.25E-05	8.49E-07
Proj00007-3UG-PASSocietal Discount Rate Scenario	0	953.1857103	1.25E-05	8.49E-07
Proj00007-3UG-PASWACC Discount Rate Scenario	0	953.1857103	1.25E-05	8.49E-07
Proj00007-3UG-UGASHybrid Discount Rate Scenario	0	0	1.25E-05	8.49E-07
Proj00007-3UG-UGASSocietal Discount Rate Scenario	0	0	1.25E-05	8.49E-07
Proj00007-3UG-UGASWACC Discount Rate Scenario	0	0	1.25E-05	8.49E-07
Proj00008-3UG-ALT1Hybrid Discount Rate Scenario	0	3662.541523	1.90E-05	3.28E-07
Proj00008-3UG-ALT1Societal Discount Rate Scenario	0	3662.541523	1.90E-05	3.28E-07
Proj00008-3UG-ALT1WACC Discount Rate Scenario	0	3662.541523	1.90E-05	3.28E-07
Proj00008-3UG-PASHybrid Discount Rate Scenario	0	1609.249745	1.90E-05	3.28E-07
Proj00008-3UG-PASSocietal Discount Rate Scenario	0	1609.249745	1.90E-05	3.28E-07
Proj00008-3UG-PASWACC Discount Rate Scenario	0	1609.249745	1.90E-05	3.28E-07
Proj00008-3UG-UGASHybrid Discount Rate Scenario	0	0	1.90E-05	3.28E-07
Proj00008-3UG-UGASSocietal Discount Rate Scenario	0	0	1.90E-05	3.28E-07
Proj00008-3UG-UGASWACC Discount Rate Scenario	0	0	1.90E-05	3.28E-07
Proj00009-3UG-ALT1Hybrid Discount Rate Scenario	0	1282.22072	2.06E-05	2.78E-05
Proj00009-3UG-ALT1Societal Discount Rate Scenario	0	1282.22072	2.06E-05	2.78E-05
Proj00009-3UG-ALT1WACC Discount Rate Scenario	0	1282.22072	2.06E-05	2.78E-05
Proj00009-3UG-PASHybrid Discount Rate Scenario	0	26.39123199	2.06E-05	2.78E-05
Proj00009-3UG-PASSocietal Discount Rate Scenario	0	26.39123199	2.06E-05	2.78E-05

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sorter	outage_program_pre_mitigated_financial_consequences	outage_program_post_mitigated_likelihood	outage_program_post_mitigated_safety_consequences	outage_program_post_mitigated_residential_reliability_consequences
Proj00009-3UG-PASWACC Discount Rate Scenario	0	26.39123199	2.06E-05	2.78E-05
Proj00009-3UG-UGASHybrid Discount Rate Scenario	0	0	2.06E-05	2.78E-05
Proj00009-3UG-UGASSocietal Discount Rate Scenario	0	0	2.06E-05	2.78E-05
Proj00009-3UG-UGASWACC Discount Rate Scenario	0	0	2.06E-05	2.78E-05
Proj00010-3UG-ALT1Hybrid Discount Rate Scenario	0	433.7679049		5.87E-05
Proj00010-3UG-ALT1Societal Discount Rate Scenario	0	433.7679049		5.87E-05
Proj00010-3UG-ALT1WACC Discount Rate Scenario	0	433.7679049		5.87E-05
Proj00010-3UG-PASHybrid Discount Rate Scenario	0	64.38006529		5.87E-05
Proj00010-3UG-PASSocietal Discount Rate Scenario	0	64.38006529		5.87E-05
Proj00010-3UG-PASWACC Discount Rate Scenario	0	64.38006529		5.87E-05
Proj00010-3UG-UGASHybrid Discount Rate Scenario	0	0		5.87E-05
Proj00010-3UG-UGASSocietal Discount Rate Scenario	0	0		5.87E-05
Proj00010-3UG-UGASWACC Discount Rate Scenario	0	0		5.87E-05
Proj00011-3UG-ALT1Hybrid Discount Rate Scenario	0	3152.395791	5.23E-05	2.92E-05
Proj00011-3UG-ALT1Societal Discount Rate Scenario	0	3152.395791	5.23E-05	2.92E-05
Proj00011-3UG-ALT1WACC Discount Rate Scenario	0	3152.395791	5.23E-05	2.92E-05
Proj00011-3UG-PASHybrid Discount Rate Scenario	0	1518.143899	5.23E-05	2.92E-05
Proj00011-3UG-PASSocietal Discount Rate Scenario	0	1518.143899	5.23E-05	2.92E-05
Proj00011-3UG-PASWACC Discount Rate Scenario	0	1518.143899	5.23E-05	2.92E-05
Proj00011-3UG-UGASHybrid Discount Rate Scenario	0	0	5.23E-05	2.92E-05
Proj00011-3UG-UGASSocietal Discount Rate Scenario	0	0	5.23E-05	2.92E-05
Proj00011-3UG-UGASWACC Discount Rate Scenario	0	0	5.23E-05	2.92E-05
Proj00012-3UG-ALT1Hybrid Discount Rate Scenario	0	3472.163484	1.48E-05	7.66E-06
Proj00012-3UG-ALT1Societal Discount Rate Scenario	0	3472.163484	1.48E-05	7.66E-06
Proj00012-3UG-ALT1WACC Discount Rate Scenario	0	3472.163484	1.48E-05	7.66E-06
Proj00012-3UG-PASHybrid Discount Rate Scenario	0	502.8948057	1.48E-05	7.66E-06
Proj00012-3UG-PASSocietal Discount Rate Scenario	0	502.8948057	1.48E-05	7.66E-06
Proj00012-3UG-PASWACC Discount Rate Scenario	0	502.8948057	1.48E-05	7.66E-06
Proj00012-3UG-UGASHybrid Discount Rate Scenario	0	0	1.48E-05	7.66E-06
Proj00012-3UG-UGASSocietal Discount Rate Scenario	0	0	1.48E-05	7.66E-06
Proj00012-3UG-UGASWACC Discount Rate Scenario	0	0	1.48E-05	7.66E-06
Proj00013-3UG-ALT1Hybrid Discount Rate Scenario	0	755.6148225	3.55E-05	4.87E-05
Proj00013-3UG-ALT1Societal Discount Rate Scenario	0	755.6148225	3.55E-05	4.87E-05
Proj00013-3UG-ALT1WACC Discount Rate Scenario	0	755.6148225	3.55E-05	4.87E-05
Proj00013-3UG-PASHybrid Discount Rate Scenario	0	230.2031929	3.55E-05	4.87E-05
Proj00013-3UG-PASSocietal Discount Rate Scenario	0	230.2031929	3.55E-05	4.87E-05
Proj00013-3UG-PASWACC Discount Rate Scenario	0	230.2031929	3.55E-05	4.87E-05
Proj00013-3UG-UGASHybrid Discount Rate Scenario	0	0	3.55E-05	4.87E-05
Proj00013-3UG-UGASSocietal Discount Rate Scenario	0	0	3.55E-05	4.87E-05
Proj00013-3UG-UGASWACC Discount Rate Scenario	0	0	3.55E-05	4.87E-05
Proj00014-3UG-ALT1Hybrid Discount Rate Scenario	0	36.47649278		0.00024625
Proj00014-3UG-ALT1Societal Discount Rate Scenario	0	36.47649278		0.00024625
Proj00014-3UG-ALT1WACC Discount Rate Scenario	0	36.47649278		0.00024625
Proj00014-3UG-PASHybrid Discount Rate Scenario	0	0.0493886		0.00024625
Proj00014-3UG-PASSocietal Discount Rate Scenario	0	0.0493886		0.00024625
Proj00014-3UG-PASWACC Discount Rate Scenario	0	0.0493886		0.00024625
Proj00014-3UG-UGASHybrid Discount Rate Scenario	0	0		0.00024625
Proj00014-3UG-UGASSocietal Discount Rate Scenario	0	0		0.00024625
Proj00014-3UG-UGASWACC Discount Rate Scenario	0	0		0.00024625
Proj00015-3UG-ALT1Hybrid Discount Rate Scenario	0	3075.870807	3.19E-05	1.52E-05
Proj00015-3UG-ALT1Societal Discount Rate Scenario	0	3075.870807	3.19E-05	1.52E-05
Proj00015-3UG-ALT1WACC Discount Rate Scenario	0	3075.870807	3.19E-05	1.52E-05
Proj00015-3UG-PASHybrid Discount Rate Scenario	0	217.6807418	3.19E-05	1.52E-05
Proj00015-3UG-PASSocietal Discount Rate Scenario	0	217.6807418	3.19E-05	1.52E-05
Proj00015-3UG-PASWACC Discount Rate Scenario	0	217.6807418	3.19E-05	1.52E-05
Proj00015-3UG-UGASHybrid Discount Rate Scenario	0	0	3.19E-05	1.52E-05
Proj00015-3UG-UGASSocietal Discount Rate Scenario	0	0	3.19E-05	1.52E-05
Proj00015-3UG-UGASWACC Discount Rate Scenario	0	0	3.19E-05	1.52E-05
Proj00016-3UG-ALT1Hybrid Discount Rate Scenario	0	186.6822823		2.02E-05
Proj00016-3UG-ALT1Societal Discount Rate Scenario	0	186.6822823		2.02E-05
Proj00016-3UG-ALT1WACC Discount Rate Scenario	0	186.6822823		2.02E-05
Proj00016-3UG-PASHybrid Discount Rate Scenario	0	176.5404339		2.02E-05
Proj00016-3UG-PASSocietal Discount Rate Scenario	0	176.5404339		2.02E-05
Proj00016-3UG-PASWACC Discount Rate Scenario	0	176.5404339		2.02E-05
Proj00016-3UG-UGASHybrid Discount Rate Scenario	0	0		2.02E-05
Proj00016-3UG-UGASSocietal Discount Rate Scenario	0	0		2.02E-05
Proj00016-3UG-UGASWACC Discount Rate Scenario	0	0		2.02E-05
Proj00017-3UG-ALT1Hybrid Discount Rate Scenario	0	593.8067865	4.54E-05	0.000107815
Proj00017-3UG-ALT1Societal Discount Rate Scenario	0	593.8067865	4.54E-05	0.000107815
Proj00017-3UG-ALT1WACC Discount Rate Scenario	0	593.8067865	4.54E-05	0.000107815
Proj00017-3UG-PASHybrid Discount Rate Scenario	0	272.8509797	4.54E-05	0.000107815
Proj00017-3UG-PASSocietal Discount Rate Scenario	0	272.8509797	4.54E-05	0.000107815
Proj00017-3UG-PASWACC Discount Rate Scenario	0	272.8509797	4.54E-05	0.000107815
Proj00017-3UG-UGASHybrid Discount Rate Scenario	0	0	4.54E-05	0.000107815
Proj00017-3UG-UGASSocietal Discount Rate Scenario	0	0	4.54E-05	0.000107815
Proj00017-3UG-UGASWACC Discount Rate Scenario	0	0	4.54E-05	0.000107815
Proj00018-3UG-ALT1Hybrid Discount Rate Scenario	0	834.3462	5.43E-05	1.25E-05
Proj00018-3UG-ALT1Societal Discount Rate Scenario	0	834.3462	5.43E-05	1.25E-05
Proj00018-3UG-ALT1WACC Discount Rate Scenario	0	834.3462	5.43E-05	1.25E-05
Proj00018-3UG-PASHybrid Discount Rate Scenario	0	18.44672875	5.43E-05	1.25E-05
Proj00018-3UG-PASSocietal Discount Rate Scenario	0	18.44672875	5.43E-05	1.25E-05
Proj00018-3UG-PASWACC Discount Rate Scenario	0	18.44672875	5.43E-05	1.25E-05

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sorter	outage_program_pre_mitigated_financial_consequences	outage_program_post_mitigated_likelihood	outage_program_post_mitigated_safety_consequences	outage_program_post_mitigated_residential_reliability_consequences
Proj00018-3UG-UGASHybrid Discount Rate Scenario	0	0	5.43E-05	1.25E-05
Proj00018-3UG-UGASSocietal Discount Rate Scenario	0	0	5.43E-05	1.25E-05
Proj00018-3UG-UGASWACC Discount Rate Scenario	0	0	5.43E-05	1.25E-05
Proj00019-3UG-ALT1Hybrid Discount Rate Scenario	0	695.44428	4.95E-05	9.96E-05
Proj00019-3UG-ALT1Societal Discount Rate Scenario	0	695.44428	4.95E-05	9.96E-05
Proj00019-3UG-ALT1WACC Discount Rate Scenario	0	695.44428	4.95E-05	9.96E-05
Proj00019-3UG-PASHybrid Discount Rate Scenario	0	0.406323711	4.95E-05	9.96E-05
Proj00019-3UG-PASSocietal Discount Rate Scenario	0	0.406323711	4.95E-05	9.96E-05
Proj00019-3UG-PASWACC Discount Rate Scenario	0	0.406323711	4.95E-05	9.96E-05
Proj00019-3UG-UGASHybrid Discount Rate Scenario	0	0	4.95E-05	9.96E-05
Proj00019-3UG-UGASSocietal Discount Rate Scenario	0	0	4.95E-05	9.96E-05
Proj00019-3UG-UGASWACC Discount Rate Scenario	0	0	4.95E-05	9.96E-05
Proj00020-3UG-ALT1Hybrid Discount Rate Scenario	0	290.7729057		9.01E-05
Proj00020-3UG-ALT1Societal Discount Rate Scenario	0	290.7729057		9.01E-05
Proj00020-3UG-ALT1WACC Discount Rate Scenario	0	290.7729057		9.01E-05
Proj00020-3UG-PASHybrid Discount Rate Scenario	0	0		9.01E-05
Proj00020-3UG-PASSocietal Discount Rate Scenario	0	0		9.01E-05
Proj00020-3UG-PASWACC Discount Rate Scenario	0	0		9.01E-05
Proj00020-3UG-UGASHybrid Discount Rate Scenario	0	0		9.01E-05
Proj00020-3UG-UGASSocietal Discount Rate Scenario	0	0		9.01E-05
Proj00020-3UG-UGASWACC Discount Rate Scenario	0	0		9.01E-05
Proj00021-3UG-ALT1Hybrid Discount Rate Scenario	0	900.1116505	8.97E-06	1.54E-05
Proj00021-3UG-ALT1Societal Discount Rate Scenario	0	900.1116505	8.97E-06	1.54E-05
Proj00021-3UG-ALT1WACC Discount Rate Scenario	0	900.1116505	8.97E-06	1.54E-05
Proj00021-3UG-PASHybrid Discount Rate Scenario	0	0.046286956	8.97E-06	1.54E-05
Proj00021-3UG-PASSocietal Discount Rate Scenario	0	0.046286956	8.97E-06	1.54E-05
Proj00021-3UG-PASWACC Discount Rate Scenario	0	0.046286956	8.97E-06	1.54E-05
Proj00021-3UG-UGASHybrid Discount Rate Scenario	0	0	8.97E-06	1.54E-05
Proj00021-3UG-UGASSocietal Discount Rate Scenario	0	0	8.97E-06	1.54E-05
Proj00021-3UG-UGASWACC Discount Rate Scenario	0	0	8.97E-06	1.54E-05
Proj00022-3UG-ALT1Hybrid Discount Rate Scenario	0	28.4904128		1.97E-05
Proj00022-3UG-ALT1Societal Discount Rate Scenario	0	28.4904128		1.97E-05
Proj00022-3UG-ALT1WACC Discount Rate Scenario	0	28.4904128		1.97E-05
Proj00022-3UG-PASHybrid Discount Rate Scenario	0	25.18415321		1.97E-05
Proj00022-3UG-PASSocietal Discount Rate Scenario	0	25.18415321		1.97E-05
Proj00022-3UG-PASWACC Discount Rate Scenario	0	25.18415321		1.97E-05
Proj00022-3UG-UGASHybrid Discount Rate Scenario	0	0		1.97E-05
Proj00022-3UG-UGASSocietal Discount Rate Scenario	0	0		1.97E-05
Proj00022-3UG-UGASWACC Discount Rate Scenario	0	0		1.97E-05
Proj00023-3UG-ALT1Hybrid Discount Rate Scenario	0	588.3214649	4.46E-05	6.62E-05
Proj00023-3UG-ALT1Societal Discount Rate Scenario	0	588.3214649	4.46E-05	6.62E-05
Proj00023-3UG-ALT1WACC Discount Rate Scenario	0	588.3214649	4.46E-05	6.62E-05
Proj00023-3UG-PASHybrid Discount Rate Scenario	0	3.974811083	4.46E-05	6.62E-05
Proj00023-3UG-PASSocietal Discount Rate Scenario	0	3.974811083	4.46E-05	6.62E-05
Proj00023-3UG-PASWACC Discount Rate Scenario	0	3.974811083	4.46E-05	6.62E-05
Proj00023-3UG-UGASHybrid Discount Rate Scenario	0	0	4.46E-05	6.62E-05
Proj00023-3UG-UGASSocietal Discount Rate Scenario	0	0	4.46E-05	6.62E-05
Proj00023-3UG-UGASWACC Discount Rate Scenario	0	0	4.46E-05	6.62E-05
Proj00024-3UG-ALT1Hybrid Discount Rate Scenario	0	352.2835748	5.54E-06	6.04E-07
Proj00024-3UG-ALT1Societal Discount Rate Scenario	0	352.2835748	5.54E-06	6.04E-07
Proj00024-3UG-ALT1WACC Discount Rate Scenario	0	352.2835748	5.54E-06	6.04E-07
Proj00024-3UG-PASHybrid Discount Rate Scenario	0	0.048947465	5.54E-06	6.04E-07
Proj00024-3UG-PASSocietal Discount Rate Scenario	0	0.048947465	5.54E-06	6.04E-07
Proj00024-3UG-PASWACC Discount Rate Scenario	0	0.048947465	5.54E-06	6.04E-07
Proj00024-3UG-UGASHybrid Discount Rate Scenario	0	0	5.54E-06	6.04E-07
Proj00024-3UG-UGASSocietal Discount Rate Scenario	0	0	5.54E-06	6.04E-07
Proj00024-3UG-UGASWACC Discount Rate Scenario	0	0	5.54E-06	6.04E-07
Proj00025-3UG-ALT1Hybrid Discount Rate Scenario	0	23.26791811		2.57E-05
Proj00025-3UG-ALT1Societal Discount Rate Scenario	0	23.26791811		2.57E-05
Proj00025-3UG-ALT1WACC Discount Rate Scenario	0	23.26791811		2.57E-05
Proj00025-3UG-PASHybrid Discount Rate Scenario	0	0.02353085		2.57E-05
Proj00025-3UG-PASSocietal Discount Rate Scenario	0	0.02353085		2.57E-05
Proj00025-3UG-PASWACC Discount Rate Scenario	0	0.02353085		2.57E-05
Proj00025-3UG-UGASHybrid Discount Rate Scenario	0	0		2.57E-05
Proj00025-3UG-UGASSocietal Discount Rate Scenario	0	0		2.57E-05
Proj00025-3UG-UGASWACC Discount Rate Scenario	0	0		2.57E-05
Proj00026-3UG-ALT1Hybrid Discount Rate Scenario	0	134.5902457		6.27E-06
Proj00026-3UG-ALT1Societal Discount Rate Scenario	0	134.5902457		6.27E-06
Proj00026-3UG-ALT1WACC Discount Rate Scenario	0	134.5902457		6.27E-06
Proj00026-3UG-PASHybrid Discount Rate Scenario	0	0.157796201		6.27E-06
Proj00026-3UG-PASSocietal Discount Rate Scenario	0	0.157796201		6.27E-06
Proj00026-3UG-PASWACC Discount Rate Scenario	0	0.157796201		6.27E-06
Proj00026-3UG-UGASHybrid Discount Rate Scenario	0	0		6.27E-06
Proj00026-3UG-UGASSocietal Discount Rate Scenario	0	0		6.27E-06
Proj00026-3UG-UGASWACC Discount Rate Scenario	0	0		6.27E-06
Proj00027-3UG-ALT1Hybrid Discount Rate Scenario	0	9000.086673	1.88E-05	2.22E-07
Proj00027-3UG-ALT1Societal Discount Rate Scenario	0	9000.086673	1.88E-05	2.22E-07
Proj00027-3UG-ALT1WACC Discount Rate Scenario	0	9000.086673	1.88E-05	2.22E-07
Proj00027-3UG-PASHybrid Discount Rate Scenario	0	6.3072719	1.88E-05	2.22E-07
Proj00027-3UG-PASSocietal Discount Rate Scenario	0	6.3072719	1.88E-05	2.22E-07
Proj00027-3UG-PASWACC Discount Rate Scenario	0	6.3072719	1.88E-05	2.22E-07
Proj00027-3UG-UGASHybrid Discount Rate Scenario	0	0	1.88E-05	2.22E-07
Proj00027-3UG-UGASSocietal Discount Rate Scenario	0	0	1.88E-05	2.22E-07
Proj00027-3UG-UGASWACC Discount Rate Scenario	0	0	1.88E-05	2.22E-07
Proj00028-3UG-ALT1Hybrid Discount Rate Scenario	0	8007.932721	1.59E-05	2.39E-06
Proj00028-3UG-ALT1Societal Discount Rate Scenario	0	8007.932721	1.59E-05	2.39E-06
Proj00028-3UG-ALT1WACC Discount Rate Scenario	0	8007.932721	1.59E-05	2.39E-06
Proj00028-3UG-PASHybrid Discount Rate Scenario	0	1115.203811	1.59E-05	2.39E-06
Proj00028-3UG-PASSocietal Discount Rate Scenario	0	1115.203811	1.59E-05	2.39E-06
Proj00028-3UG-PASWACC Discount Rate Scenario	0	1115.203811	1.59E-05	2.39E-06
Proj00028-3UG-UGASHybrid Discount Rate Scenario	0	0	1.59E-05	2.39E-06
Proj00028-3UG-UGASSocietal Discount Rate Scenario	0	0	1.59E-05	2.39E-06
Proj00028-3UG-UGASWACC Discount Rate Scenario	0	0	1.59E-05	2.39E-06

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sorter	outage_program_post_mitigated_non_residential_reliability_consequences	outage_program_post_mitigated_financial_consequences	pre_mitigated_ignition_risk	post_mitigated_ignition_risk	pre_mitigated_outage_program_risk
Proj00001-3UG-ALT1Hybrid Discount Rate Scenario	0.001007015	0	0.144927872	0.07949449	3.484985707
Proj00001-3UG-ALT1Societal Discount Rate Scenario	0.001007015	0	0.144927872	0.07949449	3.484985707
Proj00001-3UG-ALT1WACC Discount Rate Scenario	0.001007015	0	0.144927872	0.07949449	3.484985707
Proj00001-3UG-PASHybrid Discount Rate Scenario	0.001007015	0	0.144927872	0.009171117	3.484985707
Proj00001-3UG-PASSocietal Discount Rate Scenario	0.001007015	0	0.144927872	0.009171117	3.484985707
Proj00001-3UG-PASWACC Discount Rate Scenario	0.001007015	0	0.144927872	0.009171117	3.484985707
Proj00001-3UG-UGASHybrid Discount Rate Scenario	0.001007015	0	0.144927872	0.009326119	3.385086748
Proj00001-3UG-UGASSocietal Discount Rate Scenario	0.001007015	0	0.144927872	0.009326119	3.385086748
Proj00001-3UG-UGASWACC Discount Rate Scenario	0.001007015	0	0.144927872	0.009326119	3.385086748
Proj00002-3UG-ALT1Hybrid Discount Rate Scenario	0.005267008	0	0.084876472	0.065020611	1.792060839
Proj00002-3UG-ALT1Societal Discount Rate Scenario	0.005267008	0	0.084876472	0.065020611	1.792060839
Proj00002-3UG-ALT1WACC Discount Rate Scenario	0.005267008	0	0.084876472	0.065020611	1.792060839
Proj00002-3UG-PASHybrid Discount Rate Scenario	0.005267008	0	0.084876472	0.042233475	1.792060839
Proj00002-3UG-PASSocietal Discount Rate Scenario	0.005267008	0	0.084876472	0.042233475	1.792060839
Proj00002-3UG-PASWACC Discount Rate Scenario	0.005267008	0	0.084876472	0.042233475	1.792060839
Proj00002-3UG-UGASHybrid Discount Rate Scenario	0.005267008	0	0.047846557	0.005224375	1.009713558
Proj00002-3UG-UGASSocietal Discount Rate Scenario	0.005267008	0	0.047846557	0.005224375	1.009713558
Proj00002-3UG-UGASWACC Discount Rate Scenario	0.005267008	0	0.047846557	0.005224375	1.009713558
Proj00003-3UG-ALT1Hybrid Discount Rate Scenario	0.001252914	0	0.227406399	0.137304843	4.686161629
Proj00003-3UG-ALT1Societal Discount Rate Scenario	0.001252914	0	0.227406399	0.137304843	4.686161629
Proj00003-3UG-ALT1WACC Discount Rate Scenario	0.001252914	0	0.227406399	0.137304843	4.686161629
Proj00003-3UG-PASHybrid Discount Rate Scenario	0.001252914	0	0.227406399	0.035240688	4.686161629
Proj00003-3UG-PASSocietal Discount Rate Scenario	0.001252914	0	0.227406399	0.035240688	4.686161629
Proj00003-3UG-PASWACC Discount Rate Scenario	0.001252914	0	0.227406399	0.035240688	4.686161629
Proj00003-3UG-UGASHybrid Discount Rate Scenario	0.001252914	0	0.211014422	0.01905642	4.363907006
Proj00003-3UG-UGASSocietal Discount Rate Scenario	0.001252914	0	0.211014422	0.01905642	4.363907006
Proj00003-3UG-UGASWACC Discount Rate Scenario	0.001252914	0	0.211014422	0.01905642	4.363907006
Proj00004-3UG-ALT1Hybrid Discount Rate Scenario	0.000119058	0	0.039826272	0.023989536	0.046249038
Proj00004-3UG-ALT1Societal Discount Rate Scenario	0.000119058	0	0.039826272	0.023989536	0.046249038
Proj00004-3UG-ALT1WACC Discount Rate Scenario	0.000119058	0	0.039826272	0.023989536	0.046249038
Proj00004-3UG-PASHybrid Discount Rate Scenario	0.000119058	0	0.039826272	0.002453746	0.046249038
Proj00004-3UG-PASSocietal Discount Rate Scenario	0.000119058	0	0.039826272	0.002453746	0.046249038
Proj00004-3UG-PASWACC Discount Rate Scenario	0.000119058	0	0.039826272	0.002453746	0.046249038
Proj00004-3UG-UGASHybrid Discount Rate Scenario	0.000119058	0	0.039826272	0.002229891	0.04595384
Proj00004-3UG-UGASSocietal Discount Rate Scenario	0.000119058	0	0.039826272	0.002229891	0.04595384
Proj00004-3UG-UGASWACC Discount Rate Scenario	0.000119058	0	0.039826272	0.002229891	0.04595384
Proj00005-3UG-ALT1Hybrid Discount Rate Scenario	0.000303419	0	0.118826243	0.072400351	0.257345778
Proj00005-3UG-ALT1Societal Discount Rate Scenario	0.000303419	0	0.118826243	0.072400351	0.257345778
Proj00005-3UG-ALT1WACC Discount Rate Scenario	0.000303419	0	0.118826243	0.072400351	0.257345778
Proj00005-3UG-PASHybrid Discount Rate Scenario	0.000303419	0	0.118826243	0.008081014	0.257345778
Proj00005-3UG-PASSocietal Discount Rate Scenario	0.000303419	0	0.118826243	0.008081014	0.257345778
Proj00005-3UG-PASWACC Discount Rate Scenario	0.000303419	0	0.118826243	0.008081014	0.257345778
Proj00005-3UG-UGASHybrid Discount Rate Scenario	0.000303419	0	0.118826243	0.008178753	0.257304996
Proj00005-3UG-UGASSocietal Discount Rate Scenario	0.000303419	0	0.118826243	0.008178753	0.257304996
Proj00005-3UG-UGASWACC Discount Rate Scenario	0.000303419	0	0.118826243	0.008178753	0.257304996
Proj00006-3UG-ALT1Hybrid Discount Rate Scenario	0.000813814	0	0.089932028	0.051202071	1.15177317
Proj00006-3UG-ALT1Societal Discount Rate Scenario	0.000813814	0	0.089932028	0.051202071	1.15177317
Proj00006-3UG-ALT1WACC Discount Rate Scenario	0.000813814	0	0.089932028	0.051202071	1.15177317
Proj00006-3UG-PASHybrid Discount Rate Scenario	0.000813814	0	0.089932028	0.025986291	1.15177317
Proj00006-3UG-PASSocietal Discount Rate Scenario	0.000813814	0	0.089932028	0.025986291	1.15177317
Proj00006-3UG-PASWACC Discount Rate Scenario	0.000813814	0	0.089932028	0.025986291	1.15177317
Proj00006-3UG-UGASHybrid Discount Rate Scenario	0.000813814	0	0.037917083	0.003420049	0.506611063
Proj00006-3UG-UGASSocietal Discount Rate Scenario	0.000813814	0	0.037917083	0.003420049	0.506611063
Proj00006-3UG-UGASWACC Discount Rate Scenario	0.000813814	0	0.037917083	0.003420049	0.506611063
Proj00007-3UG-ALT1Hybrid Discount Rate Scenario	0.000465494	0	0.623535001	0.343726733	0.522887856
Proj00007-3UG-ALT1Societal Discount Rate Scenario	0.000465494	0	0.623535001	0.343726733	0.522887856
Proj00007-3UG-ALT1WACC Discount Rate Scenario	0.000465494	0	0.623535001	0.343726733	0.522887856
Proj00007-3UG-PASHybrid Discount Rate Scenario	0.000465494	0	0.623535001	0.299977996	0.522887856
Proj00007-3UG-PASSocietal Discount Rate Scenario	0.000465494	0	0.623535001	0.299977996	0.522887856
Proj00007-3UG-PASWACC Discount Rate Scenario	0.000465494	0	0.623535001	0.299977996	0.522887856
Proj00007-3UG-UGASHybrid Discount Rate Scenario	0.000465494	0	0.088338821	0.004953064	0.058611615
Proj00007-3UG-UGASSocietal Discount Rate Scenario	0.000465494	0	0.088338821	0.004953064	0.058611615
Proj00007-3UG-UGASWACC Discount Rate Scenario	0.000465494	0	0.088338821	0.004953064	0.058611615
Proj00008-3UG-ALT1Hybrid Discount Rate Scenario	0.000698799	0	1.736828409	1.018356045	2.662774219
Proj00008-3UG-ALT1Societal Discount Rate Scenario	0.000698799	0	1.736828409	1.018356045	2.662774219
Proj00008-3UG-ALT1WACC Discount Rate Scenario	0.000698799	0	1.736828409	1.018356045	2.662774219
Proj00008-3UG-PASHybrid Discount Rate Scenario	0.000698799	0	1.736828409	0.671386733	2.662774219
Proj00008-3UG-PASSocietal Discount Rate Scenario	0.000698799	0	1.736828409	0.671386733	2.662774219
Proj00008-3UG-PASWACC Discount Rate Scenario	0.000698799	0	1.736828409	0.671386733	2.662774219
Proj00008-3UG-UGASHybrid Discount Rate Scenario	0.000698799	0	0.718404599	0.05153747	1.416233603
Proj00008-3UG-UGASSocietal Discount Rate Scenario	0.000698799	0	0.718404599	0.05153747	1.416233603
Proj00008-3UG-UGASWACC Discount Rate Scenario	0.000698799	0	0.718404599	0.05153747	1.416233603
Proj00009-3UG-ALT1Hybrid Discount Rate Scenario	0.000788946	0	0.280658615	0.157776414	1.405558119
Proj00009-3UG-ALT1Societal Discount Rate Scenario	0.000788946	0	0.280658615	0.157776414	1.405558119
Proj00009-3UG-ALT1WACC Discount Rate Scenario	0.000788946	0	0.280658615	0.157776414	1.405558119
Proj00009-3UG-PASHybrid Discount Rate Scenario	0.000788946	0	0.280658615	0.027429741	1.405558119
Proj00009-3UG-PASSocietal Discount Rate Scenario	0.000788946	0	0.280658615	0.027429741	1.405558119

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sorter	outage_program_post_mitigated_non_residential_reliability_consequences	outage_program_post_mitigated_financial_consequences	pre_mitigated_ignition_risk	post_mitigated_ignition_risk	pre_mitigated_outage_program_risk
Proj00009-3UG-PASWACC Discount Rate Scenario	0.000788946	0	0.280658615	0.027429741	1.405558119
Proj00009-3UG-UGASHybrid Discount Rate Scenario	0.000788946	0	0.259904467	0.017250832	1.348415086
Proj00009-3UG-UGASSocietal Discount Rate Scenario	0.000788946	0	0.259904467	0.017250832	1.348415086
Proj00009-3UG-UGASWACC Discount Rate Scenario	0.000788946	0	0.259904467	0.017250832	1.348415086
Proj00010-3UG-ALT1Hybrid Discount Rate Scenario	0.001403083	0	0.203216569	0.117163704	1.320995235
Proj00010-3UG-ALT1Societal Discount Rate Scenario	0.001403083	0	0.203216569	0.117163704	1.320995235
Proj00010-3UG-ALT1WACC Discount Rate Scenario	0.001403083	0	0.203216569	0.117163704	1.320995235
Proj00010-3UG-PASHybrid Discount Rate Scenario	0.001403083	0	0.203216569	0.029656813	1.320995235
Proj00010-3UG-PASSocietal Discount Rate Scenario	0.001403083	0	0.203216569	0.029656813	1.320995235
Proj00010-3UG-PASWACC Discount Rate Scenario	0.001403083	0	0.203216569	0.029656813	1.320995235
Proj00010-3UG-UGASHybrid Discount Rate Scenario	0.001403083	0	0.173168683	0.012444461	1.124932413
Proj00010-3UG-UGASSocietal Discount Rate Scenario	0.001403083	0	0.173168683	0.012444461	1.124932413
Proj00010-3UG-UGASWACC Discount Rate Scenario	0.001403083	0	0.173168683	0.012444461	1.124932413
Proj00011-3UG-ALT1Hybrid Discount Rate Scenario	0.001777666	0	0.208897726	0.163188919	6.214823378
Proj00011-3UG-ALT1Societal Discount Rate Scenario	0.001777666	0	0.208897726	0.163188919	6.214823378
Proj00011-3UG-ALT1WACC Discount Rate Scenario	0.001777666	0	0.208897726	0.163188919	6.214823378
Proj00011-3UG-PASHybrid Discount Rate Scenario	0.001777666	0	0.208897726	0.110958506	6.214823378
Proj00011-3UG-PASSocietal Discount Rate Scenario	0.001777666	0	0.208897726	0.110958506	6.214823378
Proj00011-3UG-PASWACC Discount Rate Scenario	0.001777666	0	0.208897726	0.110958506	6.214823378
Proj00011-3UG-UGASHybrid Discount Rate Scenario	0.001777666	0	0.107479894	0.009612997	3.471680217
Proj00011-3UG-UGASSocietal Discount Rate Scenario	0.001777666	0	0.107479894	0.009612997	3.471680217
Proj00011-3UG-UGASWACC Discount Rate Scenario	0.001777666	0	0.107479894	0.009612997	3.471680217
Proj00012-3UG-ALT1Hybrid Discount Rate Scenario	0.000447944	0	0.204327555	0.123636012	1.769069108
Proj00012-3UG-ALT1Societal Discount Rate Scenario	0.000447944	0	0.204327555	0.123636012	1.769069108
Proj00012-3UG-ALT1WACC Discount Rate Scenario	0.000447944	0	0.204327555	0.123636012	1.769069108
Proj00012-3UG-PASHybrid Discount Rate Scenario	0.000447944	0	0.204327555	0.0470364	1.769069108
Proj00012-3UG-PASSocietal Discount Rate Scenario	0.000447944	0	0.204327555	0.0470364	1.769069108
Proj00012-3UG-PASWACC Discount Rate Scenario	0.000447944	0	0.204327555	0.0470364	1.769069108
Proj00012-3UG-UGASHybrid Discount Rate Scenario	0.000447944	0	0.147304355	0.012615427	1.487856691
Proj00012-3UG-UGASSocietal Discount Rate Scenario	0.000447944	0	0.147304355	0.012615427	1.487856691
Proj00012-3UG-UGASWACC Discount Rate Scenario	0.000447944	0	0.147304355	0.012615427	1.487856691
Proj00013-3UG-ALT1Hybrid Discount Rate Scenario	0.001502186	0	0.211213037	0.126896184	2.055802951
Proj00013-3UG-ALT1Societal Discount Rate Scenario	0.001502186	0	0.211213037	0.126896184	2.055802951
Proj00013-3UG-ALT1WACC Discount Rate Scenario	0.001502186	0	0.211213037	0.126896184	2.055802951
Proj00013-3UG-PASHybrid Discount Rate Scenario	0.001502186	0	0.211213037	0.014596963	2.055802951
Proj00013-3UG-PASSocietal Discount Rate Scenario	0.001502186	0	0.211213037	0.014596963	2.055802951
Proj00013-3UG-PASWACC Discount Rate Scenario	0.001502186	0	0.211213037	0.014596963	2.055802951
Proj00013-3UG-UGASHybrid Discount Rate Scenario	0.001502186	0	0.211213037	0.014648065	1.697633705
Proj00013-3UG-UGASSocietal Discount Rate Scenario	0.001502186	0	0.211213037	0.014648065	1.697633705
Proj00013-3UG-UGASWACC Discount Rate Scenario	0.001502186	0	0.211213037	0.014648065	1.697633705
Proj00014-3UG-ALT1Hybrid Discount Rate Scenario	0.00427329	0	0.093214105	0.052742571	0.343210187
Proj00014-3UG-ALT1Societal Discount Rate Scenario	0.00427329	0	0.093214105	0.052742571	0.343210187
Proj00014-3UG-ALT1WACC Discount Rate Scenario	0.00427329	0	0.093214105	0.052742571	0.343210187
Proj00014-3UG-PASHybrid Discount Rate Scenario	0.00427329	0	0.093214105	0.006256638	0.343210187
Proj00014-3UG-PASSocietal Discount Rate Scenario	0.00427329	0	0.093214105	0.006256638	0.343210187
Proj00014-3UG-PASWACC Discount Rate Scenario	0.00427329	0	0.093214105	0.006256638	0.343210187
Proj00014-3UG-UGASHybrid Discount Rate Scenario	0.00427329	0	0.093214105	0.006287385	0.342986973
Proj00014-3UG-UGASSocietal Discount Rate Scenario	0.00427329	0	0.093214105	0.006287385	0.342986973
Proj00014-3UG-UGASWACC Discount Rate Scenario	0.00427329	0	0.093214105	0.006287385	0.342986973
Proj00015-3UG-ALT1Hybrid Discount Rate Scenario	0.000825703	0	2.075247385	1.199332261	3.497412819
Proj00015-3UG-ALT1Societal Discount Rate Scenario	0.000825703	0	2.075247385	1.199332261	3.497412819
Proj00015-3UG-ALT1WACC Discount Rate Scenario	0.000825703	0	2.075247385	1.199332261	3.497412819
Proj00015-3UG-PASHybrid Discount Rate Scenario	0.000825703	0	2.075247385	0.304292313	3.497412819
Proj00015-3UG-PASSocietal Discount Rate Scenario	0.000825703	0	2.075247385	0.304292313	3.497412819
Proj00015-3UG-PASWACC Discount Rate Scenario	0.000825703	0	2.075247385	0.304292313	3.497412819
Proj00015-3UG-UGASHybrid Discount Rate Scenario	0.000825703	0	1.692655536	0.108183536	3.083849249
Proj00015-3UG-UGASSocietal Discount Rate Scenario	0.000825703	0	1.692655536	0.108183536	3.083849249
Proj00015-3UG-UGASWACC Discount Rate Scenario	0.000825703	0	1.692655536	0.108183536	3.083849249
Proj00016-3UG-ALT1Hybrid Discount Rate Scenario	0.000305602	0	2.025751737	1.13969475	0.126705428
Proj00016-3UG-ALT1Societal Discount Rate Scenario	0.000305602	0	2.025751737	1.13969475	0.126705428
Proj00016-3UG-ALT1WACC Discount Rate Scenario	0.000305602	0	2.025751737	1.13969475	0.126705428
Proj00016-3UG-PASHybrid Discount Rate Scenario	0.000305602	0	2.025751737	1.085215427	0.126705428
Proj00016-3UG-PASSocietal Discount Rate Scenario	0.000305602	0	2.025751737	1.085215427	0.126705428
Proj00016-3UG-PASWACC Discount Rate Scenario	0.000305602	0	2.025751737	1.085215427	0.126705428
Proj00016-3UG-UGASHybrid Discount Rate Scenario	0.000305602	0	0.110369499	0.007566197	0.006883499
Proj00016-3UG-UGASSocietal Discount Rate Scenario	0.000305602	0	0.110369499	0.007566197	0.006883499
Proj00016-3UG-UGASWACC Discount Rate Scenario	0.000305602	0	0.110369499	0.007566197	0.006883499
Proj00017-3UG-ALT1Hybrid Discount Rate Scenario	0.002724139	0	0.208640272	0.111373399	3.084995557
Proj00017-3UG-ALT1Societal Discount Rate Scenario	0.002724139	0	0.208640272	0.111373399	3.084995557
Proj00017-3UG-ALT1WACC Discount Rate Scenario	0.002724139	0	0.208640272	0.111373399	3.084995557
Proj00017-3UG-PASHybrid Discount Rate Scenario	0.002724139	0	0.208640272	0.072080016	3.084995557
Proj00017-3UG-PASSocietal Discount Rate Scenario	0.002724139	0	0.208640272	0.072080016	3.084995557
Proj00017-3UG-PASWACC Discount Rate Scenario	0.002724139	0	0.208640272	0.072080016	3.084995557
Proj00017-3UG-UGASHybrid Discount Rate Scenario	0.002724139	0	0.084293985	0.005773976	1.476083937
Proj00017-3UG-UGASSocietal Discount Rate Scenario	0.002724139	0	0.084293985	0.005773976	1.476083937
Proj00017-3UG-UGASWACC Discount Rate Scenario	0.002724139	0	0.084293985	0.005773976	1.476083937
Proj00018-3UG-ALT1Hybrid Discount Rate Scenario	0.001709971	0	0.051234418	0.030963611	1.573232409
Proj00018-3UG-ALT1Societal Discount Rate Scenario	0.001709971	0	0.051234418	0.030963611	1.573232409
Proj00018-3UG-ALT1WACC Discount Rate Scenario	0.001709971	0	0.051234418	0.030963611	1.573232409
Proj00018-3UG-PASHybrid Discount Rate Scenario	0.001709971	0	0.051234418	0.00835241	1.573232409
Proj00018-3UG-PASSocietal Discount Rate Scenario	0.001709971	0	0.051234418	0.00835241	1.573232409
Proj00018-3UG-PASWACC Discount Rate Scenario	0.001709971	0	0.051234418	0.00835241	1.573232409

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sorter	outage_program_post_mitigated_non_residential_reliability_consequences	outage_program_post_mitigated_financial_consequences	pre_mitigated_ignition_risk	post_mitigated_ignition_risk	pre_mitigated_outage_program_risk
Proj00018-3UG-UGASHybrid Discount Rate Scenario	0.001709971	0	0.04569341	0.00286471	1.505784621
Proj00018-3UG-UGASSocietal Discount Rate Scenario	0.001709971	0	0.04569341	0.00286471	1.505784621
Proj00018-3UG-UGASWACC Discount Rate Scenario	0.001709971	0	0.04569341	0.00286471	1.505784621
Proj00019-3UG-ALT1Hybrid Discount Rate Scenario	0.001798369	0	0.336378677	0.182171776	2.16662363
Proj00019-3UG-ALT1Societal Discount Rate Scenario	0.001798369	0	0.336378677	0.182171776	2.16662363
Proj00019-3UG-ALT1WACC Discount Rate Scenario	0.001798369	0	0.336378677	0.182171776	2.16662363
Proj00019-3UG-PASHybrid Discount Rate Scenario	0.001798369	0	0.336378677	0.02114283	2.16662363
Proj00019-3UG-PASSocietal Discount Rate Scenario	0.001798369	0	0.336378677	0.02114283	2.16662363
Proj00019-3UG-PASWACC Discount Rate Scenario	0.001798369	0	0.336378677	0.02114283	2.16662363
Proj00019-3UG-UGASHybrid Discount Rate Scenario	0.001798369	0	0.336378677	0.021314875	2.165852445
Proj00019-3UG-UGASSocietal Discount Rate Scenario	0.001798369	0	0.336378677	0.021314875	2.165852445
Proj00019-3UG-UGASWACC Discount Rate Scenario	0.001798369	0	0.336378677	0.021314875	2.165852445
Proj00020-3UG-ALT1Hybrid Discount Rate Scenario	0.000146689	0	0.160149556	0.099558969	0.14346501
Proj00020-3UG-ALT1Societal Discount Rate Scenario	0.000146689	0	0.160149556	0.099558969	0.14346501
Proj00020-3UG-ALT1WACC Discount Rate Scenario	0.000146689	0	0.160149556	0.099558969	0.14346501
Proj00020-3UG-PASHybrid Discount Rate Scenario	0.000146689	0	0.160149556	0.009567803	0.14346501
Proj00020-3UG-PASSocietal Discount Rate Scenario	0.000146689	0	0.160149556	0.009567803	0.14346501
Proj00020-3UG-PASWACC Discount Rate Scenario	0.000146689	0	0.160149556	0.009567803	0.14346501
Proj00020-3UG-UGASHybrid Discount Rate Scenario	0.000146689	0	0.160149556	0.009727057	0.14346501
Proj00020-3UG-UGASSocietal Discount Rate Scenario	0.000146689	0	0.160149556	0.009727057	0.14346501
Proj00020-3UG-UGASWACC Discount Rate Scenario	0.000146689	0	0.160149556	0.009727057	0.14346501
Proj00021-3UG-ALT1Hybrid Discount Rate Scenario	0.000353526	0	1.702365495	0.963650739	0.445987222
Proj00021-3UG-ALT1Societal Discount Rate Scenario	0.000353526	0	1.702365495	0.963650739	0.445987222
Proj00021-3UG-ALT1WACC Discount Rate Scenario	0.000353526	0	1.702365495	0.963650739	0.445987222
Proj00021-3UG-PASHybrid Discount Rate Scenario	0.000353526	0	1.702365495	0.122053366	0.445987222
Proj00021-3UG-PASSocietal Discount Rate Scenario	0.000353526	0	1.702365495	0.122053366	0.445987222
Proj00021-3UG-PASWACC Discount Rate Scenario	0.000353526	0	1.702365495	0.122053366	0.445987222
Proj00021-3UG-UGASHybrid Discount Rate Scenario	0.000353526	0	1.702365495	0.123580611	0.442648622
Proj00021-3UG-UGASSocietal Discount Rate Scenario	0.000353526	0	1.702365495	0.123580611	0.442648622
Proj00021-3UG-UGASWACC Discount Rate Scenario	0.000353526	0	1.702365495	0.123580611	0.442648622
Proj00022-3UG-ALT1Hybrid Discount Rate Scenario	0.000152795	0	0.243666742	0.141934999	0.010230824
Proj00022-3UG-ALT1Societal Discount Rate Scenario	0.000152795	0	0.243666742	0.141934999	0.010230824
Proj00022-3UG-ALT1WACC Discount Rate Scenario	0.000152795	0	0.243666742	0.141934999	0.010230824
Proj00022-3UG-PASHybrid Discount Rate Scenario	0.000152795	0	0.243666742	0.12790985	0.010230824
Proj00022-3UG-PASSocietal Discount Rate Scenario	0.000152795	0	0.243666742	0.12790985	0.010230824
Proj00022-3UG-PASWACC Discount Rate Scenario	0.000152795	0	0.243666742	0.12790985	0.010230824
Proj00022-3UG-UGASHybrid Discount Rate Scenario	0.000152795	0	0.028294097	0.002476653	0.001187983
Proj00022-3UG-UGASSocietal Discount Rate Scenario	0.000152795	0	0.028294097	0.002476653	0.001187983
Proj00022-3UG-UGASWACC Discount Rate Scenario	0.000152795	0	0.028294097	0.002476653	0.001187983
Proj00023-3UG-ALT1Hybrid Discount Rate Scenario	0.003312488	0	2.202234688	1.320360898	3.784982853
Proj00023-3UG-ALT1Societal Discount Rate Scenario	0.003312488	0	2.202234688	1.320360898	3.784982853
Proj00023-3UG-ALT1WACC Discount Rate Scenario	0.003312488	0	2.202234688	1.320360898	3.784982853
Proj00023-3UG-PASHybrid Discount Rate Scenario	0.003312488	0	2.202234688	0.166522442	3.784982853
Proj00023-3UG-PASSocietal Discount Rate Scenario	0.003312488	0	2.202234688	0.166522442	3.784982853
Proj00023-3UG-PASWACC Discount Rate Scenario	0.003312488	0	2.202234688	0.166522442	3.784982853
Proj00023-3UG-UGASHybrid Discount Rate Scenario	0.003312488	0	2.184719495	0.15798849	3.757004567
Proj00023-3UG-UGASSocietal Discount Rate Scenario	0.003312488	0	2.184719495	0.15798849	3.757004567
Proj00023-3UG-UGASWACC Discount Rate Scenario	0.003312488	0	2.184719495	0.15798849	3.757004567
Proj00024-3UG-ALT1Hybrid Discount Rate Scenario	0.000204173	0	0.029628248	0.017685399	0.076209214
Proj00024-3UG-ALT1Societal Discount Rate Scenario	0.000204173	0	0.029628248	0.017685399	0.076209214
Proj00024-3UG-ALT1WACC Discount Rate Scenario	0.000204173	0	0.029628248	0.017685399	0.076209214
Proj00024-3UG-PASHybrid Discount Rate Scenario	0.000204173	0	0.029628248	0.001867247	0.076209214
Proj00024-3UG-PASSocietal Discount Rate Scenario	0.000204173	0	0.029628248	0.001867247	0.076209214
Proj00024-3UG-PASWACC Discount Rate Scenario	0.000204173	0	0.029628248	0.001867247	0.076209214
Proj00024-3UG-UGASHybrid Discount Rate Scenario	0.000204173	0	0.029628248	0.001858524	0.07619919
Proj00024-3UG-UGASSocietal Discount Rate Scenario	0.000204173	0	0.029628248	0.001858524	0.07619919
Proj00024-3UG-UGASWACC Discount Rate Scenario	0.000204173	0	0.029628248	0.001858524	0.07619919
Proj00025-3UG-ALT1Hybrid Discount Rate Scenario	0.000269206	0	0.276679714	0.149099622	0.014289247
Proj00025-3UG-ALT1Societal Discount Rate Scenario	0.000269206	0	0.276679714	0.149099622	0.014289247
Proj00025-3UG-ALT1WACC Discount Rate Scenario	0.000269206	0	0.276679714	0.149099622	0.014289247
Proj00025-3UG-PASHybrid Discount Rate Scenario	0.000269206	0	0.276679714	0.017734386	0.014289247
Proj00025-3UG-PASSocietal Discount Rate Scenario	0.000269206	0	0.276679714	0.017734386	0.014289247
Proj00025-3UG-PASWACC Discount Rate Scenario	0.000269206	0	0.276679714	0.017734386	0.014289247
Proj00025-3UG-UGASHybrid Discount Rate Scenario	0.000269206	0	0.276679714	0.017872121	0.014282307
Proj00025-3UG-UGASSocietal Discount Rate Scenario	0.000269206	0	0.276679714	0.017872121	0.014282307
Proj00025-3UG-UGASWACC Discount Rate Scenario	0.000269206	0	0.276679714	0.017872121	0.014282307
Proj00026-3UG-ALT1Hybrid Discount Rate Scenario	6.89E-05	0	0.113085647	0.070850979	0.021060482
Proj00026-3UG-ALT1Societal Discount Rate Scenario	6.89E-05	0	0.113085647	0.070850979	0.021060482
Proj00026-3UG-ALT1WACC Discount Rate Scenario	6.89E-05	0	0.113085647	0.070850979	0.021060482
Proj00026-3UG-PASHybrid Discount Rate Scenario	6.89E-05	0	0.113085647	0.006424306	0.021060482
Proj00026-3UG-PASSocietal Discount Rate Scenario	6.89E-05	0	0.113085647	0.006424306	0.021060482
Proj00026-3UG-PASWACC Discount Rate Scenario	6.89E-05	0	0.113085647	0.006424306	0.021060482
Proj00026-3UG-UGASHybrid Discount Rate Scenario	6.89E-05	0	0.113085647	0.006472724	0.020427719
Proj00026-3UG-UGASSocietal Discount Rate Scenario	6.89E-05	0	0.113085647	0.006472724	0.020427719
Proj00026-3UG-UGASWACC Discount Rate Scenario	6.89E-05	0	0.113085647	0.006472724	0.020427719
Proj00027-3UG-ALT1Hybrid Discount Rate Scenario	0.000247624	0	0.337261317	0.188254327	2.748995023
Proj00027-3UG-ALT1Societal Discount Rate Scenario	0.000247624	0	0.337261317	0.188254327	2.748995023
Proj00027-3UG-ALT1WACC Discount Rate Scenario	0.000247624	0	0.337261317	0.188254327	2.748995023
Proj00027-3UG-PASHybrid Discount Rate Scenario	0.000247624	0	0.337261317	0.020995424	2.748995023
Proj00027-3UG-PASSocietal Discount Rate Scenario	0.000247624	0	0.337261317	0.020995424	2.748995023
Proj00027-3UG-PASWACC Discount Rate Scenario	0.000247624	0	0.337261317	0.020995424	2.748995023
Proj00027-3UG-UGASHybrid Discount Rate Scenario	0.000247624	0	0.337261317	0.020799772	2.747431791
Proj00027-3UG-UGASSocietal Discount Rate Scenario	0.000247624	0	0.337261317	0.020799772	2.747431791
Proj00027-3UG-UGASWACC Discount Rate Scenario	0.000247624	0	0.337261317	0.020799772	2.747431791
Proj00028-3UG-ALT1Hybrid Discount Rate Scenario	0.000289132	0	0.133159541	0.092341386	2.410964152
Proj00028-3UG-ALT1Societal Discount Rate Scenario	0.000289132	0	0.133159541	0.092341386	2.410964152
Proj00028-3UG-ALT1WACC Discount Rate Scenario	0.000289132	0	0.133159541	0.092341386	2.410964152
Proj00028-3UG-PASHybrid Discount Rate Scenario	0.000289132	0	0.133159541	0.028220803	2.410964152
Proj00028-3UG-PASSocietal Discount Rate Scenario	0.000289132	0	0.133159541	0.028220803	2.410964152
Proj00028-3UG-PASWACC Discount Rate Scenario	0.000289132	0	0.133159541	0.028220803	2.410964152
Proj00028-3UG-UGASHybrid Discount Rate Scenario	0.000289132	0	0.105736009	0.007821956	2.072702547
Proj00028-3UG-UGASSocietal Discount Rate Scenario	0.000289132	0	0.105736009	0.007821956	2.072702547
Proj00028-3UG-UGASWACC Discount Rate Scenario	0.000289132	0	0.105736009	0.007821956	2.072702547

SPD-37
Pacific Gas and Electric Company
Electrical Undergrounding Program
SPD-37 Table 1: Data Set

sorter	post_mitigated_outage_program_risk	pre_mitigated_overall_utility_risk	post_mitigated_overall_utility_risk	discount_rate_scenario	ignition_risk_mitigation_benefit	outage_program_risk_mitigation_benefit	total_om_costs_nbb	total_om_costs_nbb_pv
Proj00001-3UG-ALT1Hybrid Discount Rate Scenario	3.328166645	3.629913579	3.407661135	Hybrid Discount Rate Scenario	0.065433382	0.156819062	1.189380319	23.89320317
Proj00001-3UG-ALT1Societal Discount Rate Scenario	3.328166645	3.629913579	3.407661135	Societal Discount Rate Scenario	0.065433382	0.156819062	1.189380319	37.29484569
Proj00001-3UG-ALT1WACC Discount Rate Scenario	3.328166645	3.629913579	3.407661135	WACC Discount Rate Scenario	0.065433382	0.156819062	1.189380319	23.89320317
Proj00001-3UG-PASHybrid Discount Rate Scenario	0	3.629913579	0.009171117	Hybrid Discount Rate Scenario	0.135756755	3.484985707	1.189380319	24.70765818
Proj00001-3UG-PASSocietal Discount Rate Scenario	0	3.629913579	0.009171117	Societal Discount Rate Scenario	0.135756755	3.484985707	1.189380319	40.24658864
Proj00001-3UG-PASWACC Discount Rate Scenario	0	3.629913579	0.009171117	WACC Discount Rate Scenario	0.135756755	3.484985707	1.189380319	24.70765818
Proj00001-3UG-UGASHybrid Discount Rate Scenario	0	3.530014619	0.009326119	Hybrid Discount Rate Scenario	0.135601753	3.385086748	1.189380319	24.70765818
Proj00001-3UG-UGASSocietal Discount Rate Scenario	0	3.530014619	0.009326119	Societal Discount Rate Scenario	0.135601753	3.385086748	1.189380319	40.24658864
Proj00001-3UG-UGASWACC Discount Rate Scenario	0	3.530014619	0.009326119	WACC Discount Rate Scenario	0.135601753	3.385086748	1.189380319	24.70765818
Proj00002-3UG-ALT1Hybrid Discount Rate Scenario	1.267009789	1.876937311	1.3320304	Hybrid Discount Rate Scenario	0.019855861	0.52505105	0.538855935	6.093323926
Proj00002-3UG-ALT1Societal Discount Rate Scenario	1.267009789	1.876937311	1.3320304	Societal Discount Rate Scenario	0.019855861	0.52505105	0.538855935	9.498963951
Proj00002-3UG-ALT1WACC Discount Rate Scenario	1.267009789	1.876937311	1.3320304	WACC Discount Rate Scenario	0.019855861	0.52505105	0.538855935	6.093323926
Proj00002-3UG-PASHybrid Discount Rate Scenario	0.782347281	1.876937311	0.824580755	Hybrid Discount Rate Scenario	0.042642997	1.009713558	0.538855935	6.30708889
Proj00002-3UG-PASSocietal Discount Rate Scenario	0.782347281	1.876937311	0.824580755	Societal Discount Rate Scenario	0.042642997	1.009713558	0.538855935	10.27368965
Proj00002-3UG-PASWACC Discount Rate Scenario	0.782347281	1.876937311	0.824580755	WACC Discount Rate Scenario	0.042642997	1.009713558	0.538855935	6.30708889
Proj00002-3UG-UGASHybrid Discount Rate Scenario	0	1.057560116	0.005224375	Hybrid Discount Rate Scenario	0.042622183	1.009713558	0.538855935	6.30708889
Proj00002-3UG-UGASSocietal Discount Rate Scenario	0	1.057560116	0.005224375	Societal Discount Rate Scenario	0.042622183	1.009713558	0.538855935	10.27368965
Proj00002-3UG-UGASWACC Discount Rate Scenario	0	1.057560116	0.005224375	WACC Discount Rate Scenario	0.042622183	1.009713558	0.538855935	6.30708889
Proj00003-3UG-ALT1Hybrid Discount Rate Scenario	3.632133048	4.913568028	3.769437891	Hybrid Discount Rate Scenario	0.090101556	1.054028581	1.539063464	28.59320528
Proj00003-3UG-ALT1Societal Discount Rate Scenario	3.632133048	4.913568028	3.769437891	Societal Discount Rate Scenario	0.090101556	1.054028581	1.539063464	44.57432913
Proj00003-3UG-ALT1WACC Discount Rate Scenario	3.632133048	4.913568028	3.769437891	WACC Discount Rate Scenario	0.090101556	1.054028581	1.539063464	28.59320528
Proj00003-3UG-PASHybrid Discount Rate Scenario	0.322254624	4.913568028	0.357495312	Hybrid Discount Rate Scenario	0.192165711	4.363907006	1.539063464	29.66721814
Proj00003-3UG-PASSocietal Discount Rate Scenario	0.322254624	4.913568028	0.357495312	Societal Discount Rate Scenario	0.192165711	4.363907006	1.539063464	48.32527291
Proj00003-3UG-PASWACC Discount Rate Scenario	0.322254624	4.913568028	0.357495312	WACC Discount Rate Scenario	0.192165711	4.363907006	1.539063464	29.66721814
Proj00003-3UG-UGASHybrid Discount Rate Scenario	0	4.574921428	0.01905642	Hybrid Discount Rate Scenario	0.191958002	4.363907006	1.539063464	29.66721814
Proj00003-3UG-UGASSocietal Discount Rate Scenario	0	4.574921428	0.01905642	Societal Discount Rate Scenario	0.191958002	4.363907006	1.539063464	48.32527291
Proj00003-3UG-UGASWACC Discount Rate Scenario	0	4.574921428	0.01905642	WACC Discount Rate Scenario	0.191958002	4.363907006	1.539063464	29.66721814
Proj00004-3UG-ALT1Hybrid Discount Rate Scenario	0.023169923	0.08607531	0.047159459	Hybrid Discount Rate Scenario	0.015836736	0.023079115	0.054302871	1.082629714
Proj00004-3UG-ALT1Societal Discount Rate Scenario	0.023169923	0.08607531	0.047159459	Societal Discount Rate Scenario	0.015836736	0.023079115	0.054302871	1.687725903
Proj00004-3UG-ALT1WACC Discount Rate Scenario	0.023169923	0.08607531	0.047159459	WACC Discount Rate Scenario	0.015836736	0.023079115	0.054302871	1.082629714
Proj00004-3UG-PASHybrid Discount Rate Scenario	0.000295198	0.08607531	0.002748944	Hybrid Discount Rate Scenario	0.037372526	0.04595384	0.054302871	1.120610347
Proj00004-3UG-PASSocietal Discount Rate Scenario	0.000295198	0.08607531	0.002748944	Societal Discount Rate Scenario	0.037372526	0.04595384	0.054302871	1.825375086
Proj00004-3UG-PASWACC Discount Rate Scenario	0.000295198	0.08607531	0.002748944	WACC Discount Rate Scenario	0.037372526	0.04595384	0.054302871	1.120610347
Proj00004-3UG-UGASHybrid Discount Rate Scenario	0	0.085780112	0.002229891	Hybrid Discount Rate Scenario	0.037596381	0.04595384	0.054302871	1.120610347
Proj00004-3UG-UGASSocietal Discount Rate Scenario	0	0.085780112	0.002229891	Societal Discount Rate Scenario	0.037596381	0.04595384	0.054302871	1.825375086
Proj00004-3UG-UGASWACC Discount Rate Scenario	0	0.085780112	0.002229891	WACC Discount Rate Scenario	0.037596381	0.04595384	0.054302871	1.120610347
Proj00005-3UG-ALT1Hybrid Discount Rate Scenario	0.239725043	0.376172021	0.312125394	Hybrid Discount Rate Scenario	0.046425892	0.017620736	1.287588531	25.83717848
Proj00005-3UG-ALT1Societal Discount Rate Scenario	0.239725043	0.376172021	0.312125394	Societal Discount Rate Scenario	0.046425892	0.017620736	1.287588531	40.27792219
Proj00005-3UG-ALT1WACC Discount Rate Scenario	0.239725043	0.376172021	0.312125394	WACC Discount Rate Scenario	0.046425892	0.017620736	1.287588531	25.83717848
Proj00005-3UG-PASHybrid Discount Rate Scenario	4.08E-05	0.376172021	0.008121796	Hybrid Discount Rate Scenario	0.110745229	0.257304996	1.287588531	26.74359402
Proj00005-3UG-PASSocietal Discount Rate Scenario	4.08E-05	0.376172021	0.008121796	Societal Discount Rate Scenario	0.110745229	0.257304996	1.287588531	43.56294796
Proj00005-3UG-PASWACC Discount Rate Scenario	4.08E-05	0.376172021	0.008121796	WACC Discount Rate Scenario	0.110745229	0.257304996	1.287588531	26.74359402
Proj00005-3UG-UGASHybrid Discount Rate Scenario	0	0.376131239	0.008178753	Hybrid Discount Rate Scenario	0.11064749	0.257304996	1.287588531	26.74359402
Proj00005-3UG-UGASSocietal Discount Rate Scenario	0	0.376131239	0.008178753	Societal Discount Rate Scenario	0.11064749	0.257304996	1.287588531	43.56294796
Proj00005-3UG-UGASWACC Discount Rate Scenario	0	0.376131239	0.008178753	WACC Discount Rate Scenario	0.11064749	0.257304996	1.287588531	26.74359402
Proj00006-3UG-ALT1Hybrid Discount Rate Scenario	0.80433225	1.241705198	0.855534321	Hybrid Discount Rate Scenario	0.038729957	0.34744092	0.142853329	2.85922819
Proj00006-3UG-ALT1Societal Discount Rate Scenario	0.80433225	1.241705198	0.855534321	Societal Discount Rate Scenario	0.038729957	0.34744092	0.142853329	4.457288966
Proj00006-3UG-ALT1WACC Discount Rate Scenario	0.80433225	1.241705198	0.855534321	WACC Discount Rate Scenario	0.038729957	0.34744092	0.142853329	2.85922819
Proj00006-3UG-PASHybrid Discount Rate Scenario	0.327004221	1.241705198	0.352990512	Hybrid Discount Rate Scenario	0.063945737	0.824768949	0.142853329	2.915497949
Proj00006-3UG-PASSocietal Discount Rate Scenario	0.327004221	1.241705198	0.352990512	Societal Discount Rate Scenario	0.063945737	0.824768949	0.142853329	4.66122149
Proj00006-3UG-PASWACC Discount Rate Scenario	0.327004221	1.241705198	0.352990512	WACC Discount Rate Scenario	0.063945737	0.824768949	0.142853329	2.915497949
Proj00006-3UG-UGASHybrid Discount Rate Scenario	0	0.544528146	0.003420049	Hybrid Discount Rate Scenario	0.034497034	0.506611063	0.142853329	1.251185593
Proj00006-3UG-UGASSocietal Discount Rate Scenario	0	0.544528146	0.003420049	Societal Discount Rate Scenario	0.034497034	0.506611063	0.142853329	2.038070606
Proj00006-3UG-UGASWACC Discount Rate Scenario	0	0.544528146	0.003420049	WACC Discount Rate Scenario	0.034497034	0.506611063	0.142853329	1.251185593
Proj00007-3UG-ALT1Hybrid Discount Rate Scenario	0.499868151	1.146422857	0.843594884	Hybrid Discount Rate Scenario	0.279808268	0.023019705	0.57843645	11.60891955
Proj00007-3UG-ALT1Societal Discount Rate Scenario	0.499868151	1.146422857	0.843594884	Societal Discount Rate Scenario	0.279808268	0.023019705	0.57843645	18.09729954
Proj00007-3UG-ALT1WACC Discount Rate Scenario	0.499868151	1.146422857	0.843594884	WACC Discount Rate Scenario	0.279808268	0.023019705	0.57843645	11.60891955
Proj00007-3UG-PASHybrid Discount Rate Scenario	0.444511649	1.146422857	0.744489645	Hybrid Discount Rate Scenario	0.323557005	0.078376207	0.57843645	11.66650866
Proj00007-3UG-PASSocietal Discount Rate Scenario	0.444511649	1.146422857	0.744489645	Societal Discount Rate Scenario	0.323557005	0.078376207	0.57843645	18.30601365
Proj00007-3UG-PASWACC Discount Rate Scenario	0.444511649	1.146422857	0.744489645	WACC Discount Rate Scenario	0.323557005	0.078376207	0.57843645	11.66650866
Proj00007-3UG-UGASHybrid Discount Rate Scenario	0	0.146950436	0.004953064	Hybrid Discount Rate Scenario	0.083385757	0.058611615	0.57843645	1.699154252
Proj00007-3UG-UGASSocietal Discount Rate Scenario	0	0.146950436	0.004953064	Societal Discount Rate Scenario	0.083385757	0.058611615	0.57843645	2.767771908
Proj00007-3UG-UGASWACC Discount Rate Scenario	0	0.146950436	0.004953064	WACC Discount Rate Scenario	0.083385757	0.058611615	0.57843645	1.699154252
Proj00008-3UG-ALT1Hybrid Discount Rate Scenario	2.560580925	4.399602627	3.57893697	Hybrid Discount Rate Scenario	0.718472363	0.102193294	0.94984221	17.20413716
Proj00008-3UG-ALT1Societal Discount Rate Scenario	2.560580925	4.399602627	3.57893697	Societal Discount Rate Scenario	0.718472363	0.102193294	0.94984221	26.84769373
Proj00008-3UG-ALT1WACC Discount Rate Scenario	2.560580925	4.399602627	3.57893697	WACC Discount Rate Scenario	0.718472363	0.102193294	0.94984221	17.20413716
Proj00008-3UG-PASHybrid Discount Rate Scenario	1.12506962	4.399602627	1.796456354	Hybrid Discount Rate Scenario	1.065441675	1.537704599	0.94984221	17.4807562
Proj00008-3UG-PASSocietal Discount Rate Scenario	1.12506962	4.399602627	1.796456354	Societal Discount Rate Scenario	1.065441675	1.537704599	0.94984221	27.85021478
Proj00008-3UG-PASWACC Discount Rate Scenario	1.12506962	4.399602627	1.796456354	WACC Discount Rate Scenario	1.065441675	1.537704599	0.94984221	17.4807562
Proj00008-3UG-UGASHybrid Discount Rate Scenario	0	2.134638202	0.05153747	Hybrid Discount Rate Scenario	0.666867129	1.416233603	0.94984221	8.160038069
Proj00008-3UG-UGASSocietal Discount Rate Scenario	0	2.134638202	0.05153747	Societal Discount Rate Scenario	0.666867129	1.416233603	0.94984221	13.29197988
Proj00008-3UG-UGASWACC Discount Rate Scenario	0	2.134638202	0.05153747	WACC Discount Rate Scenario	0.666867129	1.416233603	0.94984221	8.160038069
Proj00009-3UG-ALT1Hybrid Discount Rate Scenario	1.047213546	1.686216734	1.204989959	Hybrid Discount Rate Scenario	0.122882201	0.358344573	1.315205475	26.3979808
Proj00009-3UG-ALT1Societal Discount Rate Scenario	1.047213546	1.686216734	1.204989959	Societal Discount Rate Scenario	0.122882201	0.358344573	1.315205475	41.1684373
Proj00009-3UG-ALT1WACC Discount Rate Scenario	1.047213546	1.686216734	1.204989959	WACC Discount Rate Scenario	0.122882201	0.358344573	1.315205475	26.3979808
Proj00009-3UG-PASHybrid Discount Rate Scenario	0.021554211	1.686216734	0.048983952	Hybrid Discount Rate Scenario	0.253228874	1.384003908	1.315205475	27.25550698
Proj00009-3UG-PASSocietal Discount Rate Scenario	0.021554211	1.686216734	0.048983952	Societal Discount Rate Scenario	0.253228874	1.384003908	1.315205475	44.27627851

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sorter	post_mitigated_outage_program_risk	pre_mitigated_overall_utility_risk	post_mitigated_overall_utility_risk	discount_rate_scenario	ignition_risk_mitigation_benefit	outage_program_risk_mitigation_benefit	total_om_costs_nbb	total_om_costs_nbb_pv
Proj00009-3UG-PASWACC Discount Rate Scenario	0.021554211	1.686216734	0.048983952	WACC Discount Rate Scenario	0.253228874	1.384003908	1.315205475	27.25550698
Proj00009-3UG-UGASHybrid Discount Rate Scenario	0	1.608319553	0.017250832	Hybrid Discount Rate Scenario	0.242653635	1.348415086	1.315205475	25.30112378
Proj00009-3UG-UGASSocietal Discount Rate Scenario	0	1.608319553	0.017250832	Societal Discount Rate Scenario	0.242653635	1.348415086	1.315205475	41.21329158
Proj00009-3UG-UGASWACC Discount Rate Scenario	0	1.608319553	0.017250832	WACC Discount Rate Scenario	0.242653635	1.348415086	1.315205475	25.30112378
Proj00010-3UG-ALT1Hybrid Discount Rate Scenario	0.634077713	1.524211804	0.751241416	Hybrid Discount Rate Scenario	0.086052865	0.686917522	0.60340918	12.11010939
Proj00010-3UG-ALT1Societal Discount Rate Scenario	0.634077713	1.524211804	0.751241416	Societal Discount Rate Scenario	0.086052865	0.686917522	0.60340918	18.87861108
Proj00010-3UG-ALT1WACC Discount Rate Scenario	0.634077713	1.524211804	0.751241416	WACC Discount Rate Scenario	0.086052865	0.686917522	0.60340918	12.11010939
Proj00010-3UG-PASHybrid Discount Rate Scenario	0.094110154	1.524211804	0.123766968	Hybrid Discount Rate Scenario	0.173559756	1.22688508	0.60340918	12.47189852
Proj00010-3UG-PASSocietal Discount Rate Scenario	0.094110154	1.524211804	0.123766968	Societal Discount Rate Scenario	0.173559756	1.22688508	0.60340918	20.18980504
Proj00010-3UG-PASWACC Discount Rate Scenario	0.094110154	1.524211804	0.123766968	WACC Discount Rate Scenario	0.173559756	1.22688508	0.60340918	12.47189852
Proj00010-3UG-UGASHybrid Discount Rate Scenario	0	1.298101095	0.012444461	Hybrid Discount Rate Scenario	0.160724222	1.124932413	0.60340918	10.67450958
Proj00010-3UG-UGASSocietal Discount Rate Scenario	0	1.298101095	0.012444461	Societal Discount Rate Scenario	0.160724222	1.124932413	0.60340918	17.38783145
Proj00010-3UG-UGASWACC Discount Rate Scenario	0	1.298101095	0.012444461	WACC Discount Rate Scenario	0.160724222	1.124932413	0.60340918	10.67450958
Proj00011-3UG-ALT1Hybrid Discount Rate Scenario	5.69608254	6.423721104	5.859271458	Hybrid Discount Rate Scenario	0.045708807	0.518740838	1.858745724	19.18783478
Proj00011-3UG-ALT1Societal Discount Rate Scenario	5.69608254	6.423721104	5.859271458	Societal Discount Rate Scenario	0.045708807	0.518740838	1.858745724	29.91217159
Proj00011-3UG-ALT1WACC Discount Rate Scenario	5.69608254	6.423721104	5.859271458	WACC Discount Rate Scenario	0.045708807	0.518740838	1.858745724	19.18783478
Proj00011-3UG-PASHybrid Discount Rate Scenario	2.743143161	6.423721104	2.854101667	Hybrid Discount Rate Scenario	0.09793922	3.471680217	1.858745724	19.86097917
Proj00011-3UG-PASSocietal Discount Rate Scenario	2.743143161	6.423721104	2.854101667	Societal Discount Rate Scenario	0.09793922	3.471680217	1.858745724	32.35177745
Proj00011-3UG-PASWACC Discount Rate Scenario	2.743143161	6.423721104	2.854101667	WACC Discount Rate Scenario	0.09793922	3.471680217	1.858745724	19.86097917
Proj00011-3UG-UGASHybrid Discount Rate Scenario	0	3.579160111	0.009612997	Hybrid Discount Rate Scenario	0.097866897	3.471680217	1.858745724	19.86097917
Proj00011-3UG-UGASSocietal Discount Rate Scenario	0	3.579160111	0.009612997	Societal Discount Rate Scenario	0.097866897	3.471680217	1.858745724	32.35177745
Proj00011-3UG-UGASWACC Discount Rate Scenario	0	3.579160111	0.009612997	WACC Discount Rate Scenario	0.097866897	3.471680217	1.858745724	19.86097917
Proj00012-3UG-ALT1Hybrid Discount Rate Scenario	1.581918818	1.973396663	1.70555483	Hybrid Discount Rate Scenario	0.080691542	0.18715029	0.701238126	14.05931028
Proj00012-3UG-ALT1Societal Discount Rate Scenario	1.581918818	1.973396663	1.70555483	Societal Discount Rate Scenario	0.080691542	0.18715029	0.701238126	21.91724634
Proj00012-3UG-ALT1WACC Discount Rate Scenario	1.581918818	1.973396663	1.70555483	WACC Discount Rate Scenario	0.080691542	0.18715029	0.701238126	14.05931028
Proj00012-3UG-PASHybrid Discount Rate Scenario	0.229119038	1.973396663	0.276155438	Hybrid Discount Rate Scenario	0.157291155	1.53995007	0.701238126	14.41524683
Proj00012-3UG-PASSocietal Discount Rate Scenario	0.229119038	1.973396663	0.276155438	Societal Discount Rate Scenario	0.157291155	1.53995007	0.701238126	23.20722943
Proj00012-3UG-PASWACC Discount Rate Scenario	0.229119038	1.973396663	0.276155438	WACC Discount Rate Scenario	0.157291155	1.53995007	0.701238126	14.41524683
Proj00012-3UG-UGASHybrid Discount Rate Scenario	0	1.635161046	0.012615427	Hybrid Discount Rate Scenario	0.134688928	1.487856691	0.701238126	10.50183056
Proj00012-3UG-UGASSocietal Discount Rate Scenario	0	1.635161046	0.012615427	Societal Discount Rate Scenario	0.134688928	1.487856691	0.701238126	17.10655261
Proj00012-3UG-UGASWACC Discount Rate Scenario	0	1.635161046	0.012615427	WACC Discount Rate Scenario	0.134688928	1.487856691	0.701238126	10.50183056
Proj00013-3UG-ALT1Hybrid Discount Rate Scenario	1.171887748	2.267015988	1.298783932	Hybrid Discount Rate Scenario	0.084316853	0.883915203	0.945024686	18.96615546
Proj00013-3UG-ALT1Societal Discount Rate Scenario	1.171887748	2.267015988	1.298783932	Societal Discount Rate Scenario	0.084316853	0.883915203	0.945024686	29.56659275
Proj00013-3UG-ALT1WACC Discount Rate Scenario	1.171887748	2.267015988	1.298783932	WACC Discount Rate Scenario	0.084316853	0.883915203	0.945024686	18.96615546
Proj00013-3UG-PASHybrid Discount Rate Scenario	0.35702357	2.267015988	0.371620532	Hybrid Discount Rate Scenario	0.196616074	1.698779381	0.945024686	19.63066052
Proj00013-3UG-PASSocietal Discount Rate Scenario	0.35702357	2.267015988	0.371620532	Societal Discount Rate Scenario	0.196616074	1.698779381	0.945024686	31.97488801
Proj00013-3UG-PASWACC Discount Rate Scenario	0.35702357	2.267015988	0.371620532	WACC Discount Rate Scenario	0.196616074	1.698779381	0.945024686	19.63066052
Proj00013-3UG-UGASHybrid Discount Rate Scenario	0	1.908846742	0.014648065	Hybrid Discount Rate Scenario	0.196564972	1.697633705	0.945024686	19.60607778
Proj00013-3UG-UGASSocietal Discount Rate Scenario	0	1.908846742	0.014648065	Societal Discount Rate Scenario	0.196564972	1.697633705	0.945024686	31.93656564
Proj00013-3UG-UGASWACC Discount Rate Scenario	0	1.908846742	0.014648065	WACC Discount Rate Scenario	0.196564972	1.697633705	0.945024686	19.60607778
Proj00014-3UG-ALT1Hybrid Discount Rate Scenario	0.164856961	0.436424292	0.217599532	Hybrid Discount Rate Scenario	0.040471533	0.178353226	0.222922853	4.471036376
Proj00014-3UG-ALT1Societal Discount Rate Scenario	0.164856961	0.436424292	0.217599532	Societal Discount Rate Scenario	0.040471533	0.178353226	0.222922853	6.969958248
Proj00014-3UG-ALT1WACC Discount Rate Scenario	0.164856961	0.436424292	0.217599532	WACC Discount Rate Scenario	0.040471533	0.178353226	0.222922853	4.471036376
Proj00014-3UG-PASHybrid Discount Rate Scenario	0.000223214	0.436424292	0.006479852	Hybrid Discount Rate Scenario	0.086957467	0.342986973	0.222922853	4.627888521
Proj00014-3UG-PASSocietal Discount Rate Scenario	0.000223214	0.436424292	0.006479852	Societal Discount Rate Scenario	0.086957467	0.342986973	0.222922853	7.538420851
Proj00014-3UG-PASWACC Discount Rate Scenario	0.000223214	0.436424292	0.006479852	WACC Discount Rate Scenario	0.086957467	0.342986973	0.222922853	4.627888521
Proj00014-3UG-UGASHybrid Discount Rate Scenario	0	0.436201078	0.006287385	Hybrid Discount Rate Scenario	0.08692672	0.342986973	0.222922853	4.627888521
Proj00014-3UG-UGASSocietal Discount Rate Scenario	0	0.436201078	0.006287385	Societal Discount Rate Scenario	0.08692672	0.342986973	0.222922853	7.538420851
Proj00014-3UG-UGASWACC Discount Rate Scenario	0	0.436201078	0.006287385	WACC Discount Rate Scenario	0.08692672	0.342986973	0.222922853	4.627888521
Proj00015-3UG-ALT1Hybrid Discount Rate Scenario	2.586653088	5.572660204	3.785986349	Hybrid Discount Rate Scenario	0.875914124	0.910759731	1.57894037	31.71058946
Proj00015-3UG-ALT1Societal Discount Rate Scenario	2.586653088	5.572660204	3.785986349	Societal Discount Rate Scenario	0.875914124	0.910759731	1.57894037	49.47965197
Proj00015-3UG-ALT1WACC Discount Rate Scenario	2.586653088	5.572660204	3.785986349	WACC Discount Rate Scenario	0.875914124	0.910759731	1.57894037	31.71058946
Proj00015-3UG-PASHybrid Discount Rate Scenario	0.183058587	5.572660204	0.487350899	Hybrid Discount Rate Scenario	1.770955072	3.314354232	1.57894037	32.61740358
Proj00015-3UG-PASSocietal Discount Rate Scenario	0.183058587	5.572660204	0.487350899	Societal Discount Rate Scenario	1.770955072	3.314354232	1.57894037	52.77264367
Proj00015-3UG-PASWACC Discount Rate Scenario	0.183058587	5.572660204	0.487350899	WACC Discount Rate Scenario	1.770955072	3.314354232	1.57894037	32.61740358
Proj00015-3UG-UGASHybrid Discount Rate Scenario	0	4.776504785	0.108183536	Hybrid Discount Rate Scenario	1.584472	3.083849249	1.57894037	26.75317169
Proj00015-3UG-UGASSocietal Discount Rate Scenario	0	4.776504785	0.108183536	Societal Discount Rate Scenario	1.584472	3.083849249	1.57894037	43.57854913
Proj00015-3UG-UGASWACC Discount Rate Scenario	0	4.776504785	0.108183536	WACC Discount Rate Scenario	1.584472	3.083849249	1.57894037	26.75317169
Proj00016-3UG-ALT1Hybrid Discount Rate Scenario	0.060818605	2.152457165	1.200513355	Hybrid Discount Rate Scenario	0.886056987	0.065886822	1.65289579	33.17276127
Proj00016-3UG-ALT1Societal Discount Rate Scenario	0.060818605	2.152457165	1.200513355	Societal Discount Rate Scenario	0.886056987	0.065886822	1.65289579	51.71346005
Proj00016-3UG-ALT1WACC Discount Rate Scenario	0.060818605	2.152457165	1.200513355	WACC Discount Rate Scenario	0.886056987	0.065886822	1.65289579	33.17276127
Proj00016-3UG-PASHybrid Discount Rate Scenario	0.057514526	2.152457165	1.142729953	Hybrid Discount Rate Scenario	0.94053631	0.069190902	1.65289579	33.23598467
Proj00016-3UG-PASSocietal Discount Rate Scenario	0.057514526	2.152457165	1.142729953	Societal Discount Rate Scenario	0.94053631	0.069190902	1.65289579	51.94259394
Proj00016-3UG-PASWACC Discount Rate Scenario	0.057514526	2.152457165	1.142729953	WACC Discount Rate Scenario	0.94053631	0.069190902	1.65289579	33.23598467
Proj00016-3UG-UGASHybrid Discount Rate Scenario	0	0.117252997	0.007566197	Hybrid Discount Rate Scenario	0.102803302	0.006883499	1.65289579	1.865392901
Proj00016-3UG-UGASSocietal Discount Rate Scenario	0	0.117252997	0.007566197	Societal Discount Rate Scenario	0.102803302	0.006883499	1.65289579	3.038559955
Proj00016-3UG-UGASWACC Discount Rate Scenario	0	0.117252997	0.007566197	WACC Discount Rate Scenario	0.102803302	0.006883499	1.65289579	1.865392901
Proj00017-3UG-ALT1Hybrid Discount Rate Scenario	1.681633648	3.293635829	1.793007047	Hybrid Discount Rate Scenario	0.097266873	1.403361908	1.009765881	20.25935803
Proj00017-3UG-ALT1Societal Discount Rate Scenario	1.681633648	3.293635829	1.793007047	Societal Discount Rate Scenario	0.097266873	1.403361908	1.009765881	31.58258349
Proj00017-3UG-ALT1WACC Discount Rate Scenario	1.681633648	3.293635829	1.793007047	WACC Discount Rate Scenario	0.097266873	1.403361908	1.009765881	20.25935803
Proj00017-3UG-PASHybrid Discount Rate Scenario	0.77270149	3.293635829	0.844781505	Hybrid Discount Rate Scenario	0.136560256	2.312294067	1.009765881	20.54659316
Proj00017-3UG-PASSocietal Discount Rate Scenario	0.77270149	3.293635829	0.844781505	Societal Discount Rate Scenario	0.136560256	2.312294067	1.009765881	32.62357932
Proj00017-3UG-PASWACC Discount Rate Scenario	0.77270149	3.293635829	0.844781505	WACC Discount Rate Scenario	0.136560256	2.312294067	1.009765881	20.54659316
Proj00017-3UG-UGASHybrid Discount Rate Scenario	0	1.560377922	0.005773976	Hybrid Discount Rate Scenario	0.078520009	1.476083937	1.009765881	8.474810168
Proj00017-3UG-UGASSocietal Discount Rate Scenario	0	1.560377922	0.005773976	Societal Discount Rate Scenario	0.078520009	1.476083937	1.009765881	13.80471578
Proj00017-3UG-UGASWACC Discount Rate Scenario	0	1.560377922	0.005773976	WACC Discount Rate Scenario	0.078520009	1.476083937	1.009765881	8.474810168
Proj00018-3UG-ALT1Hybrid Discount Rate Scenario	1.437172537	1.624466827	1.468136147	Hybrid Discount Rate Scenario	0.020270808	0.136059872	0.376153946	6.677256861
Proj00018-3UG-ALT1Societal Discount Rate Scenario	1.437172537	1.624466827	1.468136147	Societal Discount Rate Scenario	0.020270808	0.136059872	0.376153946	10.41301018
Proj00018-3UG-ALT1WACC Discount Rate Scenario	1.437172537	1.624466827	1.468136147	WACC Discount Rate Scenario	0.020270808	0.136059872	0.376153946	6.677256861
Proj00018-3UG-PASHybrid Discount Rate Scenario	0.031774738	1.624466827	0.040127148	Hybrid Discount Rate Scenario	0.042882009	1.541457671	0.376153946	6.968964012
Proj00018-3UG-PASSocietal Discount Rate Scenario	0.031774738	1.624466827	0.040127148	Societal Discount Rate Scenario	0.042882009	1.541457671	0.376153946	11.35182565
Proj00018-3UG-PASWACC Discount Rate Scenario	0.031774738	1.624466827	0.040127148	WACC Discount Rate Scenario	0.042882009	1.541457671	0.376153946	6.968964012

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Electrical Undergrounding Program
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sorter	post_mitigated_outage_program_risk	pre_mitigated_overall_utility_risk	post_mitigated_overall_utility_risk	discount_rate_scenario	ignition_risk_mitigation_benefit	outage_program_risk_mitigation_benefit	total_om_costs_nbb	total_om_costs_nbb_pv
Proj00018-3UG-UGAShybrid Discount Rate Scenario	0	1.551478031	0.00286471	Hybrid Discount Rate Scenario	0.0428287	1.505784621	0.376153946	6.968964012
Proj00018-3UG-UGASSocietal Discount Rate Scenario	0	1.551478031	0.00286471	Societal Discount Rate Scenario	0.0428287	1.505784621	0.376153946	11.35182565
Proj00018-3UG-UGASWACC Discount Rate Scenario	0	1.551478031	0.00286471	WACC Discount Rate Scenario	0.0428287	1.505784621	0.376153946	6.968964012
Proj00019-3UG-ALT1Hybrid Discount Rate Scenario	1.319923534	2.503002307	1.502095309	Hybrid Discount Rate Scenario	0.154206902	0.846700096	1.301033912	26.09871514
Proj00019-3UG-ALT1Societal Discount Rate Scenario	1.319923534	2.503002307	1.502095309	Societal Discount Rate Scenario	0.154206902	0.846700096	1.301033912	40.68563517
Proj00019-3UG-ALT1WACC Discount Rate Scenario	1.319923534	2.503002307	1.502095309	WACC Discount Rate Scenario	0.154206902	0.846700096	1.301033912	26.09871514
Proj00019-3UG-PAShybrid Discount Rate Scenario	0.000771185	2.503002307	0.021914015	Hybrid Discount Rate Scenario	0.315235847	2.165852445	1.301033912	27.01430587
Proj00019-3UG-PASSocietal Discount Rate Scenario	0.000771185	2.503002307	0.021914015	Societal Discount Rate Scenario	0.315235847	2.165852445	1.301033912	44.0039136
Proj00019-3UG-PASWACC Discount Rate Scenario	0.000771185	2.503002307	0.021914015	WACC Discount Rate Scenario	0.315235847	2.165852445	1.301033912	27.01430587
Proj00019-3UG-UGAShybrid Discount Rate Scenario	0	2.502231122	0.021314875	Hybrid Discount Rate Scenario	0.315063802	2.165852445	1.301033912	27.01430587
Proj00019-3UG-UGASSocietal Discount Rate Scenario	0	2.502231122	0.021314875	Societal Discount Rate Scenario	0.315063802	2.165852445	1.301033912	44.0039136
Proj00019-3UG-UGASWACC Discount Rate Scenario	0	2.502231122	0.021314875	WACC Discount Rate Scenario	0.315063802	2.165852445	1.301033912	27.01430587
Proj00020-3UG-ALT1Hybrid Discount Rate Scenario	0.068863205	0.303614567	0.168422174	Hybrid Discount Rate Scenario	0.060590587	0.074601805	1.039412457	20.86046898
Proj00020-3UG-ALT1Societal Discount Rate Scenario	0.068863205	0.303614567	0.168422174	Societal Discount Rate Scenario	0.060590587	0.074601805	1.039412457	32.51966336
Proj00020-3UG-ALT1WACC Discount Rate Scenario	0.068863205	0.303614567	0.168422174	WACC Discount Rate Scenario	0.060590587	0.074601805	1.039412457	20.86046898
Proj00020-3UG-PAShybrid Discount Rate Scenario	0	0.303614567	0.009567803	Hybrid Discount Rate Scenario	0.150581754	0.14346501	1.039412457	21.59229244
Proj00020-3UG-PASSocietal Discount Rate Scenario	0	0.303614567	0.009567803	Societal Discount Rate Scenario	0.150581754	0.14346501	1.039412457	35.17193355
Proj00020-3UG-PASWACC Discount Rate Scenario	0	0.303614567	0.009567803	WACC Discount Rate Scenario	0.150581754	0.14346501	1.039412457	21.59229244
Proj00020-3UG-UGAShybrid Discount Rate Scenario	0	0.303614567	0.009727057	Hybrid Discount Rate Scenario	0.150422499	0.14346501	1.039412457	21.59229244
Proj00020-3UG-UGASSocietal Discount Rate Scenario	0	0.303614567	0.009727057	Societal Discount Rate Scenario	0.150422499	0.14346501	1.039412457	35.17193355
Proj00020-3UG-UGASWACC Discount Rate Scenario	0	0.303614567	0.009727057	WACC Discount Rate Scenario	0.150422499	0.14346501	1.039412457	21.59229244
Proj00021-3UG-ALT1Hybrid Discount Rate Scenario	0.332034108	2.148352717	1.295684847	Hybrid Discount Rate Scenario	0.738714756	0.113953114	1.624893777	32.6167373
Proj00021-3UG-ALT1Societal Discount Rate Scenario	0.332034108	2.148352717	1.295684847	Societal Discount Rate Scenario	0.738714756	0.113953114	1.624893777	50.86426312
Proj00021-3UG-ALT1WACC Discount Rate Scenario	0.332034108	2.148352717	1.295684847	WACC Discount Rate Scenario	0.738714756	0.113953114	1.624893777	32.6167373
Proj00021-3UG-PAShybrid Discount Rate Scenario	1.71E-05	2.148352717	0.122070441	Hybrid Discount Rate Scenario	1.580312129	0.445970148	1.624893777	33.75217326
Proj00021-3UG-PASSocietal Discount Rate Scenario	1.71E-05	2.148352717	0.122070441	Societal Discount Rate Scenario	1.580312129	0.445970148	1.624893777	54.9793033
Proj00021-3UG-PASWACC Discount Rate Scenario	1.71E-05	2.148352717	0.122070441	WACC Discount Rate Scenario	1.580312129	0.445970148	1.624893777	33.75217326
Proj00021-3UG-UGAShybrid Discount Rate Scenario	0	2.145014117	0.123580611	Hybrid Discount Rate Scenario	1.578784884	0.442648622	1.624893777	33.75217326
Proj00021-3UG-UGASSocietal Discount Rate Scenario	0	2.145014117	0.123580611	Societal Discount Rate Scenario	1.578784884	0.442648622	1.624893777	54.9793033
Proj00021-3UG-UGASWACC Discount Rate Scenario	0	2.145014117	0.123580611	WACC Discount Rate Scenario	1.578784884	0.442648622	1.624893777	33.75217326
Proj00022-3UG-ALT1Hybrid Discount Rate Scenario	0.004913752	0.253897566	0.14684875	Hybrid Discount Rate Scenario	0.101731744	0.005317072	0.153889016	3.086756458
Proj00022-3UG-ALT1Societal Discount Rate Scenario	0.004913752	0.253897566	0.14684875	Societal Discount Rate Scenario	0.101731744	0.005317072	0.153889016	4.811985818
Proj00022-3UG-ALT1WACC Discount Rate Scenario	0.004913752	0.253897566	0.14684875	WACC Discount Rate Scenario	0.101731744	0.005317072	0.153889016	3.086756458
Proj00022-3UG-PAShybrid Discount Rate Scenario	0.00434352	0.253897566	0.13225337	Hybrid Discount Rate Scenario	0.115756892	0.005887304	0.153889016	3.099337761
Proj00022-3UG-PASSocietal Discount Rate Scenario	0.00434352	0.253897566	0.13225337	Societal Discount Rate Scenario	0.115756892	0.005887304	0.153889016	4.8575829
Proj00022-3UG-PASWACC Discount Rate Scenario	0.00434352	0.253897566	0.13225337	WACC Discount Rate Scenario	0.115756892	0.005887304	0.153889016	3.099337761
Proj00022-3UG-UGAShybrid Discount Rate Scenario	0	0.02948208	0.002476653	Hybrid Discount Rate Scenario	0.025817444	0.001187983	0.153889016	0.371208609
Proj00022-3UG-UGASSocietal Discount Rate Scenario	0	0.02948208	0.002476653	Societal Discount Rate Scenario	0.025817444	0.001187983	0.153889016	0.604665974
Proj00022-3UG-UGASWACC Discount Rate Scenario	0	0.02948208	0.002476653	WACC Discount Rate Scenario	0.025817444	0.001187983	0.153889016	0.371208609
Proj00023-3UG-ALT1Hybrid Discount Rate Scenario	1.987744462	5.987217541	3.308105359	Hybrid Discount Rate Scenario	0.88187379	1.797238391	3.346426923	67.16105298
Proj00023-3UG-ALT1Societal Discount Rate Scenario	1.987744462	5.987217541	3.308105359	Societal Discount Rate Scenario	0.88187379	1.797238391	3.346426923	104.6982614
Proj00023-3UG-ALT1WACC Discount Rate Scenario	1.987744462	5.987217541	3.308105359	WACC Discount Rate Scenario	0.88187379	1.797238391	3.346426923	67.16105298
Proj00023-3UG-PAShybrid Discount Rate Scenario	0.013429578	5.987217541	0.17995202	Hybrid Discount Rate Scenario	2.035712246	3.771553276	3.346426923	69.49811276
Proj00023-3UG-PASSocietal Discount Rate Scenario	0.013429578	5.987217541	0.17995202	Societal Discount Rate Scenario	2.035712246	3.771553276	3.346426923	113.1682194
Proj00023-3UG-PASWACC Discount Rate Scenario	0.013429578	5.987217541	0.17995202	WACC Discount Rate Scenario	2.035712246	3.771553276	3.346426923	69.49811276
Proj00023-3UG-UGAShybrid Discount Rate Scenario	0	5.941724061	0.15798849	Hybrid Discount Rate Scenario	2.026731004	3.757004567	3.346426923	68.95444164
Proj00023-3UG-UGASSocietal Discount Rate Scenario	0	5.941724061	0.15798849	Societal Discount Rate Scenario	2.026731004	3.757004567	3.346426923	112.3206832
Proj00023-3UG-UGASWACC Discount Rate Scenario	0	5.941724061	0.15798849	WACC Discount Rate Scenario	2.026731004	3.757004567	3.346426923	68.95444164
Proj00024-3UG-ALT1Hybrid Discount Rate Scenario	0.072139479	0.105837462	0.089824878	Hybrid Discount Rate Scenario	0.011942849	0.004069735	0.244700239	4.904725402
Proj00024-3UG-ALT1Societal Discount Rate Scenario	0.072139479	0.105837462	0.089824878	Societal Discount Rate Scenario	0.011942849	0.004069735	0.244700239	7.646041857
Proj00024-3UG-ALT1WACC Discount Rate Scenario	0.072139479	0.105837462	0.089824878	WACC Discount Rate Scenario	0.011942849	0.004069735	0.244700239	4.904725402
Proj00024-3UG-PAShybrid Discount Rate Scenario	1.00E-05	0.105837462	0.00187727	Hybrid Discount Rate Scenario	0.027761001	0.07619919	0.244700239	5.076792153
Proj00024-3UG-PASSocietal Discount Rate Scenario	1.00E-05	0.105837462	0.00187727	Societal Discount Rate Scenario	0.027761001	0.07619919	0.244700239	8.269645142
Proj00024-3UG-PASWACC Discount Rate Scenario	1.00E-05	0.105837462	0.00187727	WACC Discount Rate Scenario	0.027761001	0.07619919	0.244700239	5.076792153
Proj00024-3UG-UGAShybrid Discount Rate Scenario	0	0.105827438	0.001858524	Hybrid Discount Rate Scenario	0.027769724	0.07619919	0.244700239	5.076792153
Proj00024-3UG-UGASSocietal Discount Rate Scenario	0	0.105827438	0.001858524	Societal Discount Rate Scenario	0.027769724	0.07619919	0.244700239	8.269645142
Proj00024-3UG-UGASWACC Discount Rate Scenario	0	0.105827438	0.001858524	WACC Discount Rate Scenario	0.027769724	0.07619919	0.244700239	5.076792153
Proj00025-3UG-ALT1Hybrid Discount Rate Scenario	0.006862447	0.290968962	0.155962069	Hybrid Discount Rate Scenario	0.127580093	0.0074268	0.534510718	10.72214285
Proj00025-3UG-ALT1Societal Discount Rate Scenario	0.006862447	0.290968962	0.155962069	Societal Discount Rate Scenario	0.127580093	0.0074268	0.534510718	16.71489152
Proj00025-3UG-ALT1WACC Discount Rate Scenario	0.006862447	0.290968962	0.155962069	WACC Discount Rate Scenario	0.127580093	0.0074268	0.534510718	10.72214285
Proj00025-3UG-PAShybrid Discount Rate Scenario	6.94E-06	0.290968962	0.017741326	Hybrid Discount Rate Scenario	0.258945328	0.014282307	0.534510718	11.09829526
Proj00025-3UG-PASSocietal Discount Rate Scenario	6.94E-06	0.290968962	0.017741326	Societal Discount Rate Scenario	0.258945328	0.014282307	0.534510718	18.07814082
Proj00025-3UG-PASWACC Discount Rate Scenario	6.94E-06	0.290968962	0.017741326	WACC Discount Rate Scenario	0.258945328	0.014282307	0.534510718	11.09829526
Proj00025-3UG-UGAShybrid Discount Rate Scenario	0	0.290962022	0.017872121	Hybrid Discount Rate Scenario	0.258807593	0.014282307	0.534510718	11.09829526
Proj00025-3UG-UGASSocietal Discount Rate Scenario	0	0.290962022	0.017872121	Societal Discount Rate Scenario	0.258807593	0.014282307	0.534510718	18.07814082
Proj00025-3UG-UGASWACC Discount Rate Scenario	0	0.290962022	0.017872121	WACC Discount Rate Scenario	0.258807593	0.014282307	0.534510718	11.09829526
Proj00026-3UG-ALT1Hybrid Discount Rate Scenario	0.010115198	0.134146129	0.080966177	Hybrid Discount Rate Scenario	0.042234668	0.010945284	0.716454763	14.37077871
Proj00026-3UG-ALT1Societal Discount Rate Scenario	0.010115198	0.134146129	0.080966177	Societal Discount Rate Scenario	0.042234668	0.010945284	0.716454763	22.40279862
Proj00026-3UG-ALT1WACC Discount Rate Scenario	0.010115198	0.134146129	0.080966177	WACC Discount Rate Scenario	0.042234668	0.010945284	0.716454763	14.37077871
Proj00026-3UG-PAShybrid Discount Rate Scenario	1.19E-05	0.134146129	0.006436166	Hybrid Discount Rate Scenario	0.10666134	0.021048623	0.716454763	14.87493195
Proj00026-3UG-PASSocietal Discount Rate Scenario	1.19E-05	0.134146129	0.006436166	Societal Discount Rate Scenario	0.10666134	0.021048623	0.716454763	24.22994777
Proj00026-3UG-PASWACC Discount Rate Scenario	1.19E-05	0.134146129	0.006436166	WACC Discount Rate Scenario	0.10666134	0.021048623	0.716454763	14.87493195
Proj00026-3UG-UGAShybrid Discount Rate Scenario	0	0.133513366	0.006472724	Hybrid Discount Rate Scenario	0.106612923	0.020427719	0.716454763	14.87493195
Proj00026-3UG-UGASSocietal Discount Rate Scenario	0	0.133513366	0.006472724	Societal Discount Rate Scenario	0.106612923	0.020427719	0.716454763	24.22994777
Proj00026-3UG-UGASWACC Discount Rate Scenario	0	0.133513366	0.006472724	WACC Discount Rate Scenario	0.106612923	0.020427719	0.716454763	14.87493195
Proj00027-3UG-ALT1Hybrid Discount Rate Scenario	2.23063616	3.086256341	2.418890487	Hybrid Discount Rate Scenario	0.14900699	0.518358864	0.232453808	4.657922912
Proj00027-3UG-ALT1Societal Discount Rate Scenario	2.23063616	3.086256341	2.418890487	Societal Discount Rate Scenario	0.14900699	0.518358864	0.232453808	7.261298162
Proj00027-3UG-ALT1WACC Discount Rate Scenario	2.23063616	3.086256341	2.418890487	WACC Discount Rate Scenario	0.14900699	0.518358864	0.232453808	4.657922912
Proj00027-3UG-PAShybrid Discount Rate Scenario	0.001563233	3.086256341	0.022558657	Hybrid Discount Rate Scenario	0.316265893	2.747431791	0.232453808	4.821331379
Proj00027-3UG-PASSocietal Discount Rate Scenario	0.001563233	3.086256341	0.022558657	Societal Discount Rate Scenario	0.316265893	2.747431791	0.232453808	7.853522148
Proj00027-3UG-PASWACC Discount Rate Scenario	0.001563233	3.086256341	0.022558657	WACC Discount Rate Scenario	0.316265893	2.747431791	0.232453808	4.821331379
Proj00027-3UG-UGAShybrid Discount Rate Scenario	0	3.084693108	0.020799772	Hybrid Discount Rate Scenario	0.316461546	2.747431791	0.232453808	4.821331379
Proj00027-3UG-UGASSocietal Discount Rate Scenario	0	3.084693108	0.020799772	Societal Discount Rate Scenario	0.316461546	2.747431791	0.232453808	7.853522148
Proj00027-3UG-UGASWACC Discount Rate Scenario	0	3.084693108	0.020799772	WACC Discount Rate Scenario	0.316461546	2.747431791	0.232453808	4.821331379
Proj00028-3UG-ALT1Hybrid Discount Rate Scenario	2.334494138	2.544123693	2.426835524	Hybrid Discount Rate Scenario	0.040818155	0.076470014	0.751962415	14.45840625
Proj00028-3UG-ALT1Societal Discount Rate Scenario	2.334494138	2.544123693	2.426835524	Societal Discount Rate Scenario	0.040818155	0.076470014	0.751962415	22.53940237
Proj00028-3UG-ALT1WACC Discount Rate Scenario	2.334494138	2.544123693	2.426835524	WACC Discount Rate Scenario	0.040818155	0.076470014	0.751962415	14.45840625
Proj00028-3UG-PAShybrid Discount Rate Scenario	0.325107222	2.544123693	0.353328025	Hybrid Discount Rate Scenario	0.104938738	2.08585693	0.751962415	14.87838029
Proj00028-3UG-PASSocietal Discount Rate Scenario	0.325107222	2.544123693	0.353328025	Societal Discount Rate Scenario	0.104938738	2.08585693	0.751962415	24.06146979
Proj00028-3UG-PASWACC Discount Rate Scenario	0.325107222	2.544123693	0.353328025	WACC Discount Rate Scenario	0.104938738	2.08585693	0.751962415	14.87838029
Proj00028-3UG-UGAShybrid Discount Rate Scenario	0	2.178438557	0.007821956	Hybrid Discount Rate Scenario	0.097914054	2.072702547	0.751962415	12.3912432
Proj00028-3UG-UGASSocietal Discount Rate Scenario	0	2.178438557	0.007821956	Societal Discount Rate Scenario	0.097914054	2.072702547	0.751962415	20.1842386
Proj00028-3UG-UGASWACC Discount Rate Scenario	0	2.178438557	0.007821956	WACC Discount Rate Scenario	0.097914054	2.072702547	0.751962415	12.3912432

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Pacific Gas and Electric Company
Electrical Undergrounding Program
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sorter	incremental_om_costs	incremental_om_savings	incremental_om_cost_pv	incremental_om_savings_pv	total_mitigation_benefit_scaled	total_mitigation_benefit_unscaled	average_unit_cost_per_mile	total_capex	total_project_costs
Proj00001-3UG-ALT1Hybrid Discount Rate Scenario	0.008392938	-0.034134328	0.168441916	-6.86E-01	11.83318672	7.598838147	0.946685807	2.88739171	2.895784648
Proj00001-3UG-ALT1Societal Discount Rate Scenario	0.008392938	-0.034134328	0.26258634	-1.070334254	17.01916853	10.5366971	0.946685807	2.88739171	2.895784648
Proj00001-3UG-ALT1WACC Discount Rate Scenario	0.008392938	-0.034134328	0.168441916	-6.86E-01	10.91767063	6.736248352	0.946685807	2.88739171	2.895784648
Proj00001-3UG-PASHybrid Discount Rate Scenario	0.001263181	-1.115986679	0.026240755	-23.18301191	132.9105814	90.67629516	3.062763727	11.11783233	11.11909551
Proj00001-3UG-PASSocietal Discount Rate Scenario	0.001263181	-1.115986679	0.042743866	-37.7630734	188.2182487	127.2639172	3.062763727	11.11783233	11.11909551
Proj00001-3UG-PASWACC Discount Rate Scenario	0.001263181	-1.115986679	0.026240755	-23.18301191	116.2944841	78.63507022	3.062763727	11.11783233	11.11909551
Proj00001-3UG-UGASHybrid Discount Rate Scenario	0.001263181	-1.115986679	0.026240755	-23.18301191	132.9105814	90.67629516	3.062763727	11.11783233	11.11909551
Proj00001-3UG-UGASSocietal Discount Rate Scenario	0.001263181	-1.115986679	0.042743866	-37.7630734	188.2182487	127.2639172	3.062763727	11.11783233	11.11909551
Proj00001-3UG-UGASWACC Discount Rate Scenario	0.001263181	-1.115986679	0.026240755	-23.18301191	116.2944841	78.63507022	3.062763727	11.11783233	11.11909551
Proj00002-3UG-ALT1Hybrid Discount Rate Scenario	0.007072083	0	0.141933041	0	29.82970119	28.51651597	0.904287	2.32401759	2.331089673
Proj00002-3UG-ALT1Societal Discount Rate Scenario	0.007072083	0	0.221261303	0	41.61359354	39.55204038	0.904287	2.32401759	2.331089673
Proj00002-3UG-ALT1WACC Discount Rate Scenario	0.007072083	0	0.141933041	0	25.98170853	24.68614984	0.904287	2.32401759	2.331089673
Proj00002-3UG-PASHybrid Discount Rate Scenario	0.001014738	-0.269423569	0.02107972	-5.596885635	53.03112106	50.09441643	3.059524	7.83238144	7.833396178
Proj00002-3UG-PASSocietal Discount Rate Scenario	0.001014738	-0.269423569	0.034336997	-9.11683105	77.07430896	72.24381317	3.059524	7.83238144	7.833396178
Proj00002-3UG-PASWACC Discount Rate Scenario	0.001014738	-0.269423569	0.02107972	-5.596885635	45.672686	42.77912879	3.059524	7.83238144	7.833396178
Proj00002-3UG-UGASHybrid Discount Rate Scenario	0.001014738	-0.269423569	0.02107972	-5.596885635	53.03112106	50.09441643	3.059524	7.83238144	7.833396178
Proj00002-3UG-UGASSocietal Discount Rate Scenario	0.001014738	-0.269423569	0.034336997	-9.11683105	77.07430896	72.24381317	3.059524	7.83238144	7.833396178
Proj00002-3UG-UGASWACC Discount Rate Scenario	0.001014738	-0.269423569	0.02107972	-5.596885635	45.672686	42.77912879	3.059524	7.83238144	7.833396178
Proj00003-3UG-ALT1Hybrid Discount Rate Scenario	0.022977413	0	0.461144776	0.00E+00	49.00720135	43.37964831	0.904287	7.55079645	7.573773863
Proj00003-3UG-ALT1Societal Discount Rate Scenario	0.022977413	0	0.718884717	0	69.9878177	61.22523496	0.904287	7.55079645	7.573773863
Proj00003-3UG-ALT1WACC Discount Rate Scenario	0.022977413	0	0.461144776	0.00E+00	42.9490696	37.39536344	0.904287	7.55079645	7.573773863
Proj00003-3UG-PASHybrid Discount Rate Scenario	0.004008776	-1.339578272	0.083276538	-27.82780442	177.5998674	140.5906495	3.059524	35.24571648	35.24972526
Proj00003-3UG-PASSocietal Discount Rate Scenario	0.004008776	-1.339578272	0.135650106	-45.32902902	258.8745883	203.8771427	3.059524	35.24571648	35.24972526
Proj00003-3UG-PASWACC Discount Rate Scenario	0.004008776	-1.339578272	0.083276538	-27.82780442	153.4120952	119.9967826	3.059524	35.24571648	35.24972526
Proj00003-3UG-UGASHybrid Discount Rate Scenario	0.004008776	-1.339578272	0.083276538	-27.82780442	177.5998674	140.5906495	3.059524	35.24571648	35.24972526
Proj00003-3UG-UGASSocietal Discount Rate Scenario	0.004008776	-1.339578272	0.135650106	-45.32902902	258.8745883	203.8771427	3.059524	35.24571648	35.24972526
Proj00003-3UG-UGASWACC Discount Rate Scenario	0.004008776	-1.339578272	0.083276538	-27.82780442	153.4120952	119.9967826	3.059524	35.24571648	35.24972526
Proj00004-3UG-ALT1Hybrid Discount Rate Scenario	0.001183262	0	0.023747458	0.00E+00	1.816466945	0.850711492	0.600573	0.25824639	0.259429652
Proj00004-3UG-ALT1Societal Discount Rate Scenario	0.001183262	0	0.037020227	0	2.68812314	1.19420312	0.600573	0.25824639	0.259429652
Proj00004-3UG-ALT1WACC Discount Rate Scenario	0.001183262	0	0.023747458	0.00E+00	1.72185877	0.768572453	0.600573	0.25824639	0.259429652
Proj00004-3UG-PASHybrid Discount Rate Scenario	0.000167032	-0.048039455	0.003469839	-0.997950323	4.288551256	1.902575236	2.467274	1.18429152	1.184458552
Proj00004-3UG-PASSocietal Discount Rate Scenario	0.000167032	-0.048039455	0.00565206	-1.625572699	6.645552173	2.782376666	2.467274	1.18429152	1.184458552
Proj00004-3UG-PASWACC Discount Rate Scenario	0.000167032	-0.048039455	0.003469839	-0.997950323	4.059912421	1.709624314	2.467274	1.18429152	1.184458552
Proj00004-3UG-UGASHybrid Discount Rate Scenario	0.000167032	-0.048039455	0.003469839	-0.997950323	4.288551256	1.902575236	2.467274	1.18429152	1.184458552
Proj00004-3UG-UGASSocietal Discount Rate Scenario	0.000167032	-0.048039455	0.00565206	-1.625572699	6.645552173	2.782376666	2.467274	1.18429152	1.184458552
Proj00004-3UG-UGASWACC Discount Rate Scenario	0.000167032	-0.048039455	0.003469839	-0.997950323	4.059912421	1.709624314	2.467274	1.18429152	1.184458552
Proj00005-3UG-ALT1Hybrid Discount Rate Scenario	0.015602618	0	0.313136456	0.00E+00	4.800034641	1.937415748	1.036335	5.87601945	5.891622068
Proj00005-3UG-ALT1Societal Discount Rate Scenario	0.015602618	0	0.488152582	0	7.221904745	2.773568543	1.036335	5.87601945	5.891622068
Proj00005-3UG-ALT1WACC Discount Rate Scenario	0.015602618	0	0.313136456	0.00E+00	4.586737373	1.761478812	1.036335	5.87601945	5.891622068
Proj00005-3UG-PASHybrid Discount Rate Scenario	0.002293214	-1.227385609	0.047638201	-25.49716384	18.95904526	9.511455345	2.467274	16.25933566	16.26162887
Proj00005-3UG-PASSocietal Discount Rate Scenario	0.002293214	-1.227385609	0.077598411	-41.53262191	28.69019489	13.79435396	2.467274	16.25933566	16.26162887
Proj00005-3UG-PASWACC Discount Rate Scenario	0.002293214	-1.227385609	0.047638201	-25.49716384	17.40585477	8.385012218	2.467274	16.25933566	16.26162887
Proj00005-3UG-UGASHybrid Discount Rate Scenario	0.002293214	-1.227385609	0.047638201	-25.49716384	18.95904526	9.511455345	2.467274	16.25933566	16.26162887
Proj00005-3UG-UGASSocietal Discount Rate Scenario	0.002293214	-1.227385609	0.077598411	-41.53262191	28.69019489	13.79435396	2.467274	16.25933566	16.26162887
Proj00005-3UG-UGASWACC Discount Rate Scenario	0.002293214	-1.227385609	0.047638201	-25.49716384	17.40585477	8.385012218	2.467274	16.25933566	16.26162887
Proj00006-3UG-ALT1Hybrid Discount Rate Scenario	0.003384691	0	0.067928995	0	14.27553708	11.88730635	1.049	1.29027	1.293654691
Proj00006-3UG-ALT1Societal Discount Rate Scenario	0.003384691	0	0.105895412	0	20.16915295	16.44531853	1.049	1.29027	1.293654691
Proj00006-3UG-ALT1WACC Discount Rate Scenario	0.003384691	0	0.067928995	0	12.73707054	10.38026366	1.049	1.29027	1.293654691
Proj00006-3UG-PASHybrid Discount Rate Scenario	0.001687792	-0.073803215	0.034015221	-1.525977541	32.88552681	25.8103371	2.387232143	2.6737	2.675387792
Proj00006-3UG-PASSocietal Discount Rate Scenario	0.001687792	-0.073803215	0.053320263	-2.473571017	44.36669698	34.30476796	2.387232143	2.6737	2.675387792
Proj00006-3UG-PASWACC Discount Rate Scenario	0.001687792	-0.073803215	0.034015221	-1.525977541	29.76012316	23.062755	2.387232143	2.6737	2.675387792
Proj00006-3UG-UGASHybrid Discount Rate Scenario	0.00020183	-0.073803215	0.004192735	-1.296573565	19.63197458	15.05391974	3.06	1.7748	1.77500183
Proj00006-3UG-UGASSocietal Discount Rate Scenario	0.00020183	-0.073803215	0.006829594	-2.112003525	28.52156761	21.54313605	3.06	1.7748	1.77500183
Proj00006-3UG-UGASWACC Discount Rate Scenario	0.00020183	-0.073803215	0.004192735	-1.296573565	17.18199526	12.96796612	3.06	1.7748	1.77500183
Proj00007-3UG-ALT1Hybrid Discount Rate Scenario	0.022537137	0	0.452308665	0.00E+00	28.66159584	8.735133648	0.904	7.40376	7.426297137
Proj00007-3UG-ALT1Societal Discount Rate Scenario	0.022537137	0	0.705109986	0	45.25565145	13.17994427	0.904	7.40376	7.426297137
Proj00007-3UG-ALT1WACC Discount Rate Scenario	0.022537137	0	0.452308665	0.00E+00	27.73232802	8.089206196	0.904	7.40376	7.426297137
Proj00007-3UG-PASHybrid Discount Rate Scenario	0.019717407	-0.062551028	0.395980301	-1.299407294	35.40347705	11.46572595	1.18867284	9.62825	9.647967407
Proj00007-3UG-PASSocietal Discount Rate Scenario	0.019717407	-0.062551028	0.61784038	-2.116619408	56.41398075	17.40568609	1.18867284	9.62825	9.647967407
Proj00007-3UG-PASWACC Discount Rate Scenario	0.019717407	-0.062551028	0.395980301	-1.299407294	34.02602204	10.51380734	1.18867284	9.62825	9.647967407
Proj00007-3UG-UGASHybrid Discount Rate Scenario	0.000372343	-0.062551028	0.00773489	-1.299407294	10.79478867	3.965788292	3.059	3.27313	3.273502343
Proj00007-3UG-UGASSocietal Discount Rate Scenario	0.000372343	-0.062551028	0.012599451	-2.116619408	17.55772758	6.089458511	3.059	3.27313	3.273502343
Proj00007-3UG-UGASWACC Discount Rate Scenario	0.000372343	-0.062551028	0.00773489	-1.299407294	10.21519789	3.568459433	3.059	3.27313	3.273502343
Proj00008-3UG-ALT1Hybrid Discount Rate Scenario	0.051375848	-0.021385741	1.031086659	-0.387351936	64.44427661	21.89079765	0.908986644	16.97078065	17.0221565
Proj00008-3UG-ALT1Societal Discount Rate Scenario	0.051375848	-0.021385741	1.607374691	-0.604477054	94.91542895	30.96888365	0.908986644	16.97078065	17.0221565
Proj00008-3UG-ALT1WACC Discount Rate Scenario	0.051375848	-0.021385741	1.031086659	-0.387351936	62.30894876	20.18049954	0.908986644	16.97078065	17.0221565
Proj00008-3UG-PASHybrid Discount Rate Scenario	0.032457426	-0.293927296	0.655055912	-6.055237316	140.7699147	62.75855618	2.202406505	54.65602104	54.68847846
Proj00008-3UG-PASSocietal Discount Rate Scenario	0.032457426	-0.293927296	1.028718163	-9.8493872	207.1485433	88.75508852	2.202406505	54.65602104	54.68847846
Proj00008-3UG-PASWACC Discount Rate Scenario	0.032457426	-0.293927296	0.655055912	-6.055237316	131.9034517	56.40769931	2.202406505	54.65602104	54.68847846
Proj00008-3UG-UGASHybrid Discount Rate Scenario	0.005187225	-0.293927296	0.107757102	-5.84538092	103.2671201	49.44231317	3.059524	45.60679451	45.61198173
Proj00008-3UG-UGASSocietal Discount Rate Scenario	0.005187225	-0.293927296	0.175526776	-9.521607875	153.4697903	70.57529096	3.059524	45.60679451	45.61198173
Proj00008-3UG-UGASWACC Discount Rate Scenario	0.005187225	-0.293927296	0.107757102	-5.84538092	95.53408497	43.9562846	3.059524	45.60679451	45.61198173
Proj00009-3UG-ALT1Hybrid Discount Rate Scenario	0.019234975	-0.011190952	0.386035988	-0.224617787	30.78353866	23.30544518	0.906038519	6.33320925	6.352444225
Proj00009-3UG-ALT1Societal Discount Rate Scenario	0.019234975	-0.011190952	0.60179663	-0.350298129	44.65270947	33.11519802	0.906038519	6.33320925	6.352444225
Proj00009-3UG-ALT1WACC Discount Rate Scenario	0.019234975	-0.011190952	0.386035988	-0.224617787	27.58591725	20.20337861	0.906038519	6.33320925	6.352444225
Proj00009-3UG-PASHybrid Discount Rate Scenario	0.004289801	-1.07179701	0.088223189	-22.26447388	82.18606643	58.91572101	2.945342584	26.94988464	26.95417444
Proj00009-3UG-PASSocietal Discount Rate Scenario	0.004289801	-1.07179701	0.141929503	-36.26583068	122.6607436	86.47423528	2.945342584	26.94988464	26.95417444

SPD-37
Pacific Gas and Electric Company
Electrical Undergrounding Program
SPD-37 Table 1: Data Set

sorter	incremental_om_costs	incremental_om_savings	incremental_om_cost_pv	incremental_om_savings_pv	total_mitigation_benefit_scaled	total_mitigation_benefit_unscaled	average_unit_cost_per_mile	total_capex	total_project_costs
Proj00009-3UG-PASWACC Discount Rate Scenario	0.004289801	-1.07179701	0.088223189	-22.26447388	72.52615524	50.47135396	2.945342584	26.94988464	26.95417444
Proj00009-3UG-UGAShybrid Discount Rate Scenario	0.00302398	-1.07179701	0.062818818	-22.24784423	79.49555797	56.91925601	3.059524	26.58726356	26.59028754
Proj00009-3UG-UGASSocietal Discount Rate Scenario	0.00302398	-1.07179701	0.102326292	-36.23976803	119.0624817	83.83170024	3.059524	26.58726356	26.59028754
Proj00009-3UG-UGASWACC Discount Rate Scenario	0.00302398	-1.07179701	0.062818818	-22.24784423	70.0515368	48.67903069	3.059524	26.58726356	26.59028754
Proj00010-3UG-ALT1Hybrid Discount Rate Scenario	0.021518953	0	0.43187424	0	48.85274889	43.27935121	0.960487	7.51100834	7.532527293
Proj00010-3UG-ALT1Societal Discount Rate Scenario	0.021518953	0	0.673254491	0	72.14374153	63.37093992	0.960487	7.51100834	7.532527293
Proj00010-3UG-ALT1WACC Discount Rate Scenario	0.021518953	0	0.43187424	0	42.13844069	36.6401459	0.960487	7.51100834	7.532527293
Proj00010-3UG-PASHybrid Discount Rate Scenario	0.005916783	-0.385977712	0.120665174	-8.018129659	91.22171755	79.50439144	2.781428903	25.00504584	25.01096262
Proj00010-3UG-PASSocietal Discount Rate Scenario	0.005916783	-0.385977712	0.192068577	-13.06082314	141.8009443	122.4579017	2.781428903	25.00504584	25.01096262
Proj00010-3UG-PASWACC Discount Rate Scenario	0.005916783	-0.385977712	0.120665174	-8.018129659	77.61929093	66.07509396	2.781428903	25.00504584	25.01096262
Proj00010-3UG-UGAShybrid Discount Rate Scenario	0.002724713	-0.385977712	0.056601987	-8.018129659	83.97096633	73.0808469	3.059524	23.95607292	23.95879763
Proj00010-3UG-UGASSocietal Discount Rate Scenario	0.002724713	-0.385977712	0.092199624	-13.06082314	131.0933315	113.0523528	3.059524	23.95607292	23.95879763
Proj00010-3UG-UGASWACC Discount Rate Scenario	0.002724713	-0.385977712	0.056601987	-8.018129659	71.36508094	60.63694384	3.059524	23.95607292	23.95879763
Proj00011-3UG-ALT1Hybrid Discount Rate Scenario	0.013236087	0	0.265641413	0	46.76628524	43.89327369	1.049	5.04569	5.058926087
Proj00011-3UG-ALT1Societal Discount Rate Scenario	0.013236087	0	0.414111928	0	65.64806728	61.1628187	1.049	5.04569	5.058926087
Proj00011-3UG-ALT1WACC Discount Rate Scenario	0.013236087	0	0.265641413	0	40.7899561	37.95488896	1.049	5.04569	5.058926087
Proj00011-3UG-PASHybrid Discount Rate Scenario	0.002084424	-0.905170076	0.043300897	-18.80360138	167.4656272	134.6899672	3.059	18.32341	18.32549442
Proj00011-3UG-PASSocietal Discount Rate Scenario	0.002084424	-0.905170076	0.070533327	-30.62940143	241.4247643	193.5966265	3.059	18.32341	18.32549442
Proj00011-3UG-PASWACC Discount Rate Scenario	0.002084424	-0.905170076	0.043300897	-18.80360138	144.1629609	115.1884237	3.059	18.32341	18.32549442
Proj00011-3UG-UGAShybrid Discount Rate Scenario	0.002084424	-0.905170076	0.043300897	-18.80360138	167.4656272	134.6899672	3.059	18.32341	18.32549442
Proj00011-3UG-UGASSocietal Discount Rate Scenario	0.002084424	-0.905170076	0.070533327	-30.62940143	241.4247643	193.5966265	3.059	18.32341	18.32549442
Proj00011-3UG-UGASWACC Discount Rate Scenario	0.002084424	-0.905170076	0.043300897	-18.80360138	144.1629609	115.1884237	3.059	18.32341	18.32549442
Proj00012-3UG-ALT1Hybrid Discount Rate Scenario	0.013346162	0	0.267850565	0.00E+00	20.8146397	15.62779541	1.049	5.08765	5.100996162
Proj00012-3UG-ALT1Societal Discount Rate Scenario	0.013346162	0	0.417555804	0	29.9304819	21.76189355	1.049	5.08765	5.100996162
Proj00012-3UG-ALT1WACC Discount Rate Scenario	0.013346162	0	0.267850565	0.00E+00	18.80541571	13.68854064	1.049	5.08765	5.100996162
Proj00012-3UG-PASHybrid Discount Rate Scenario	0.005607944	-0.464366242	0.113881376	-9.646538185	79.05052005	55.08030791	2.659368189	18.05711	18.06271794
Proj00012-3UG-PASSocietal Discount Rate Scenario	0.005607944	-0.464366242	0.18028387	-15.71335642	115.5105985	79.00296205	2.659368189	18.05711	18.06271794
Proj00012-3UG-PASWACC Discount Rate Scenario	0.005607944	-0.464366242	0.113881376	-9.646538185	69.36650333	47.48609445	2.659368189	18.05711	18.06271794
Proj00012-3UG-UGAShybrid Discount Rate Scenario	0.001893033	-0.464366242	0.039325033	-9.646538185	73.25675436	50.730303	3.059	16.64096	16.64285303
Proj00012-3UG-UGASSocietal Discount Rate Scenario	0.001893033	-0.464366242	0.064056996	-15.71335642	107.1794334	72.94522776	3.059	16.64096	16.64285303
Proj00012-3UG-UGASWACC Discount Rate Scenario	0.001893033	-0.464366242	0.039325033	-9.646538185	64.13200618	43.67588211	3.059	16.64096	16.64285303
Proj00013-3UG-ALT1Hybrid Discount Rate Scenario	0.021243782	0	0.426351699	0	55.05848307	49.95572154	1.225497	9.46083684	9.482080622
Proj00013-3UG-ALT1Societal Discount Rate Scenario	0.021243782	0	0.664645327	0	80.29305129	72.40047783	1.225497	9.46083684	9.482080622
Proj00013-3UG-ALT1WACC Discount Rate Scenario	0.021243782	0	0.426351699	0	47.48690358	42.4499565	1.225497	9.46083684	9.482080622
Proj00013-3UG-PASHybrid Discount Rate Scenario	0.003691789	-0.795760865	0.076672209	-16.530783	110.8120439	98.42489743	2.967778073	31.28038089	31.28407268
Proj00013-3UG-PASSocietal Discount Rate Scenario	0.003691789	-0.795760865	0.124853581	-26.92718156	170.5188162	150.4246111	2.967778073	31.28038089	31.28407268
Proj00013-3UG-PASWACC Discount Rate Scenario	0.003691789	-0.795760865	0.076672209	-16.530783	94.25720043	82.04571151	2.967778073	31.28038089	31.28407268
Proj00013-3UG-UGAShybrid Discount Rate Scenario	0.003664271	-0.795760865	0.07611994	-16.530783	110.7406806	98.36014794	2.966782543	31.269888	31.27355227
Proj00013-3UG-UGASSocietal Discount Rate Scenario	0.003664271	-0.795760865	0.123992641	-26.92718156	170.4147453	150.3307701	2.966782543	31.269888	31.27355227
Proj00013-3UG-UGASWACC Discount Rate Scenario	0.003664271	-0.795760865	0.07611994	-16.530783	94.19565087	81.99069053	2.966782543	31.269888	31.27355227
Proj00014-3UG-ALT1Hybrid Discount Rate Scenario	0.003467258	0	0.069586069	0	8.113632246	5.544151438	0.904287	1.13940162	1.142868878
Proj00014-3UG-ALT1Societal Discount Rate Scenario	0.003467258	0	0.108478648	0	11.74265207	7.714733522	0.904287	1.13940162	1.142868878
Proj00014-3UG-ALT1WACC Discount Rate Scenario	0.003467258	0	0.069586069	0	7.422200545	4.886998343	0.904287	1.13940162	1.142868878
Proj00014-3UG-PASHybrid Discount Rate Scenario	0.000438461	-0.19241766	0.009108391	-3.997199071	16.95373567	11.1877604	3.059524	3.85500024	3.855438701
Proj00014-3UG-PASSocietal Discount Rate Scenario	0.000438461	-0.19241766	0.014836763	-6.511083303	25.6997506	16.1965922	3.059524	3.85500024	3.855438701
Proj00014-3UG-PASWACC Discount Rate Scenario	0.000438461	-0.19241766	0.009108391	-3.997199071	15.44609565	9.76491583	3.059524	3.85500024	3.855438701
Proj00014-3UG-UGAShybrid Discount Rate Scenario	0.000438461	-0.19241766	0.009108391	-3.997199071	16.95373567	11.1877604	3.059524	3.85500024	3.855438701
Proj00014-3UG-UGASSocietal Discount Rate Scenario	0.000438461	-0.19241768	0.014836763	-6.511083303	25.6997506	16.1965922	3.059524	3.85500024	3.855438701
Proj00014-3UG-UGASWACC Discount Rate Scenario	0.000438461	-0.19241766	0.009108391	-3.997199071	15.44609565	9.76491583	3.059524	3.85500024	3.855438701
Proj00015-3UG-ALT1Hybrid Discount Rate Scenario	0.062795753	-0.031874056	1.260278235	-0.640141405	110.0119994	54.95534992	1.053491649	24.04067942	24.10347517
Proj00015-3UG-ALT1Societal Discount Rate Scenario	0.062795753	-0.031874056	1.964664483	-0.998845322	162.0146212	77.5902808	1.053491649	24.04067942	24.10347517
Proj00015-3UG-ALT1WACC Discount Rate Scenario	0.062795753	-0.031874056	1.260278235	-0.640141405	103.5811806	49.21602607	1.053491649	24.04067942	24.10347517
Proj00015-3UG-PASHybrid Discount Rate Scenario	0.018598251	-1.076341603	0.379066964	-22.35528137	277.041724	143.3651653	2.78833051	76.60213311	76.62072935
Proj00015-3UG-PASSocietal Discount Rate Scenario	0.018598251	-1.076341603	0.602931173	-36.40661911	420.9085836	208.8475739	2.78833051	76.60213311	76.62072935
Proj00015-3UG-PASWACC Discount Rate Scenario	0.018598251	-1.076341603	0.379066964	-22.35528137	255.9771395	126.4088927	2.78833051	76.60213311	76.62072935
Proj00015-3UG-UGAShybrid Discount Rate Scenario	0.008251537	-1.076341603	0.171413758	-22.22178767	252.8178234	131.2507926	3.059524	72.5486569	72.55690843
Proj00015-3UG-UGASSocietal Discount Rate Scenario	0.008251537	-1.076341603	0.279217832	-36.19732424	388.1122239	192.9995905	3.059524	72.5486569	72.55690843
Proj00015-3UG-UGASWACC Discount Rate Scenario	0.008251537	-1.076341603	0.171413758	-22.22178767	232.8128305	115.2401755	3.059524	72.5486569	72.55690843
Proj00016-3UG-ALT1Hybrid Discount Rate Scenario	0.070720887	0	1.419331568	0	85.26761511	24.68316588	0.904287	23.2401759	23.31089679
Proj00016-3UG-ALT1Societal Discount Rate Scenario	0.070720887	0	2.212614837	0	132.937834	36.98586218	0.904287	23.2401759	23.31089679
Proj00016-3UG-ALT1WACC Discount Rate Scenario	0.070720887	0	1.419331568	0	82.76806758	23.01458624	0.904287	23.2401759	23.31089679
Proj00016-3UG-PASHybrid Discount Rate Scenario	0.067605659	-0.071226243	1.357329641	-1.479622348	90.88412602	26.26801566	1.057526328	27.66488874	27.7324944
Proj00016-3UG-PASSocietal Discount Rate Scenario	0.067605659	-0.071226243	2.117031284	-2.410173773	142.477144	39.5643808	1.057526328	27.66488874	27.7324944
Proj00016-3UG-PASWACC Discount Rate Scenario	0.067605659	-0.071226243	1.357329641	-1.479622348	88.19964884	24.47951093	1.057526328	27.66488874	27.7324944
Proj00016-3UG-UGAShybrid Discount Rate Scenario	0.000737271	-0.071226243	0.015315747	-1.479622348	10.24882637	2.925806844	3.059524	5.69071464	5.691451911
Proj00016-3UG-UGASSocietal Discount Rate Scenario	0.000737271	-0.071226243	0.024947995	-2.410173773	16.76139527	4.587841624	3.059524	5.69071464	5.691451911
Proj00016-3UG-UGASWACC Discount Rate Scenario	0.000737271	-0.071226243	0.015315747	-1.479622348	9.928085428	2.715233185	3.059524	5.69071464	5.691451911
Proj00017-3UG-ALT1Hybrid Discount Rate Scenario	0.019950438	0	0.400394948	0	117.4780395	111.405436	1.0526	7.63135	7.651300438
Proj00017-3UG-ALT1Societal Discount Rate Scenario	0.019950438	0	0.624181004	0	169.1310558	159.6436155	1.0526	7.63135	7.651300438
Proj00017-3UG-ALT1WACC Discount Rate Scenario	0.019950438	0	0.400394948	0	100.9890464	94.99673026	1.0526	7.63135	7.651300438
Proj00017-3UG-PASHybrid Discount Rate Scenario	0.013189169	-0.337362116	0.265616107	-7.008210856	169.9126176	157.2239916	1.981679901	15.97234	15.98552917
Proj00017-3UG-PASSocietal Discount Rate Scenario	0.013189169	-0.337362116	0.415964945	-11.41575485	251.1106766	231.4826599	1.981679901	15.97234	15.98552917
Proj00017-3UG-PASWACC Discount Rate Scenario	0.013189169	-0.337362116	0.265616107	-7.008210856	144.799643	132.7496464	1.981679901	15.97234	15.98552917
Proj00017-3UG-UGAShybrid Discount Rate Scenario	0.00130146	-0.337362116	0.027035945	-7.008210856	99.91190995	90.84171799	3.059	11.44066	11.44196146
Proj00017-3UG-UGASSocietal Discount Rate Scenario	0.00130146	-0.337362116	0.04403916	-11.41575485	150.3318957	136.3570849	3.059	11.44066	11.44196146
Proj00017-3UG-UGASWACC Discount Rate Scenario	0.00130146	-0.337362116	0.027035945	-7.008210856	84.59410089	76.14469811	3.059	11.44066	11.44196146
Proj00018-3UG-ALT1Hybrid Discount Rate Scenario	0.006466692	-0.002992001	0.129783154	-5.31E-02	10.88144051	9.543585945	0.905936782	2.128951438	2.13541813
Proj00018-3UG-ALT1Societal Discount Rate Scenario	0.006466692	-0.002992001	0.202320682	-8.28E-02	15.24200588	13.14732959	0.905936782	2.128951438	2.13541813
Proj00018-3UG-ALT1WACC Discount Rate Scenario	0.006466692	-0.002992001	0.129783154	-5.31E-02	9.647613079	8.327547153	0.905936782	2.128951438	2.13541813
Proj00018-3UG-PASHybrid Discount Rate Scenario	0.00085604	-0.278821248	0.017782996	-5.772505677	65.49198666	48.53771479	3.069976705	7.552142695	7.552998735
Proj00018-3UG-PASSocietal Discount Rate Scenario	0.00085604	-0.278821248	0.028966926	-9.402900555	93.29913782	68.71529326	3.069976705	7.552142695	7.552998735
Proj00018-3UG-PASWACC Discount Rate Scenario	0.00085604	-0.278821248	0.017782996	-5.772505677	56.8016909	41.83884137	3.069976705	7.552142695	7.552998735

SPD-37
Pacific Gas and Electric Company
Electrical Undergrounding Program
SPD-37 Table 1: Data Set

sorter	incremental_om_costs	incremental_om_savings	incremental_om_cost_pv	incremental_om_savings_pv	total_mitigation_benefit_scaled	total_mitigation_benefit_unscaled	average_unit_cost_per_mile	total_capex	total_project_costs
Proj00018-3UG-UGAShybrid Discount Rate Scenario	0.00085604	-0.278821248	0.017782996	-5.772505677	65.49198666	48.53771479	3.069976705	7.552142695	7.552998735
Proj00018-3UG-UGASSocietal Discount Rate Scenario	0.00085604	-0.278821248	0.028966926	-9.402900555	93.29913782	68.71529326	3.069976705	7.552142695	7.552998735
Proj00018-3UG-UGASWACC Discount Rate Scenario	0.00085604	-0.278821248	0.017782996	-5.772505677	56.8016909	41.83884137	3.069976705	7.552142695	7.552998735
Proj00019-3UG-ALT1Hybrid Discount Rate Scenario	0.023472734	0	0.471085603	0	63.36284826	53.76748096	1.065773	9.09104369	9.114516424
Proj00019-3UG-ALT1Societal Discount Rate Scenario	0.023472734	0	0.734381605	0.00E+00	92.68587544	77.70753972	1.065773	9.09104369	9.114516424
Proj00019-3UG-ALT1WACC Discount Rate Scenario	0.023472734	0	0.471085603	0	55.39106737	45.92229564	1.065773	9.09104369	9.114516424
Proj00019-3UG-PASHybrid Discount Rate Scenario	0.003904381	-1.094884654	0.081107875	-22.74464781	141.8464688	115.8631107	3.74	41.9628	41.96670438
Proj00019-3UG-PASSocietal Discount Rate Scenario	0.003904381	-1.094884654	0.132117546	-37.04901707	216.482914	175.1207645	3.74	41.9628	41.96670438
Proj00019-3UG-PASWACC Discount Rate Scenario	0.003904381	-1.094884654	0.081107875	-22.74464781	122.3187897	97.39515709	3.74	41.9628	41.96670438
Proj00019-3UG-UGAShybrid Discount Rate Scenario	0.003904381	-1.094884654	0.081107875	-22.74464781	141.8464688	115.8631107	3.74	41.9628	41.96670438
Proj00019-3UG-UGASSocietal Discount Rate Scenario	0.003904381	-1.094884654	0.132117546	-37.04901707	216.482914	175.1207645	3.74	41.9628	41.96670438
Proj00019-3UG-UGASWACC Discount Rate Scenario	0.003904381	-1.094884654	0.081107875	-22.74464781	122.3187897	97.39515709	3.74	41.9628	41.96670438
Proj00020-3UG-ALT1Hybrid Discount Rate Scenario	0.01348376	0	0.270612075	0	8.805767919	5.155405232	1.04	5.096	5.10948376
Proj00020-3UG-ALT1Societal Discount Rate Scenario	0.01348376	0	0.421860758	0	12.98517758	7.321760889	1.04	5.096	5.10948376
Proj00020-3UG-ALT1WACC Discount Rate Scenario	0.01348376	0	0.270612075	0	8.151135776	4.548166439	1.04	5.096	5.10948376
Proj00020-3UG-PASHybrid Discount Rate Scenario	0.001910434	-0.945279517	0.0396865	-19.6368171	19.78988217	10.32446295	3.059	16.79391	16.79582043
Proj00020-3UG-PASSocietal Discount Rate Scenario	0.001910434	-0.945279517	0.064645794	-31.98663606	30.85302874	15.416051	3.059	16.79391	16.79582043
Proj00020-3UG-PASWACC Discount Rate Scenario	0.001910434	-0.945279517	0.0396865	-19.6368171	18.38476524	9.055013711	3.059	16.79391	16.79582043
Proj00020-3UG-UGAShybrid Discount Rate Scenario	0.001910434	-0.945279517	0.0396865	-19.6368171	19.78988217	10.32446295	3.059	16.79391	16.79582043
Proj00020-3UG-UGASSocietal Discount Rate Scenario	0.001910434	-0.945279517	0.064645794	-31.98663606	30.85302874	15.416051	3.059	16.79391	16.79582043
Proj00020-3UG-UGASWACC Discount Rate Scenario	0.001910434	-0.945279517	0.0396865	-19.6368171	18.38476524	9.055013711	3.059	16.79391	16.79582043
Proj00021-3UG-ALT1Hybrid Discount Rate Scenario	0.055008194	-0.01210104	1.103985947	-0.242905998	66.6173653	20.68223014	0.917864176	18.34810487	18.40311306
Proj00021-3UG-ALT1Societal Discount Rate Scenario	0.055008194	-0.01210104	1.721018359	-3.79E-01	101.8282489	30.33630357	0.917864176	18.34810487	18.40311306
Proj00021-3UG-ALT1WACC Discount Rate Scenario	0.055008194	-0.01210104	1.103985947	-0.242905998	64.5438404	19.20874511	0.917864176	18.34810487	18.40311306
Proj00021-3UG-PASHybrid Discount Rate Scenario	0.008142826	-1.389614375	0.169155443	-28.8672125	155.3729858	50.24364938	2.469675513	57.790407	57.79854983
Proj00021-3UG-PASSocietal Discount Rate Scenario	0.008142826	-1.389614375	0.275539236	-47.02213275	249.2066867	76.87264824	2.469675513	57.790407	57.79854983
Proj00021-3UG-PASWACC Discount Rate Scenario	0.008142826	-1.389614375	0.169155443	-28.8672125	149.3402667	46.05183791	2.469675513	57.790407	57.79854983
Proj00021-3UG-UGAShybrid Discount Rate Scenario	0.008142826	-1.389614375	0.169155443	-28.8672125	155.3729858	50.24364938	2.469675513	57.790407	57.79854983
Proj00021-3UG-UGASSocietal Discount Rate Scenario	0.008142826	-1.389614375	0.275539236	-47.02213275	249.2066867	76.87264824	2.469675513	57.790407	57.79854983
Proj00021-3UG-UGASWACC Discount Rate Scenario	0.008142826	-1.389614375	0.169155443	-28.8672125	149.3402667	46.05183791	2.469675513	57.790407	57.79854983
Proj00022-3UG-ALT1Hybrid Discount Rate Scenario	0.006631803	0	0.133096859	0.00E+00	8.943055416	2.58878284	0.783822	1.88901102	1.895642823
Proj00022-3UG-ALT1Societal Discount Rate Scenario	0.006631803	0	0.207486461	0.00E+00	13.67415866	3.810089987	0.783822	1.88901102	1.895642823
Proj00022-3UG-ALT1WACC Discount Rate Scenario	0.006631803	0	0.133096859	0.00E+00	8.693263057	2.421863029	0.783822	1.88901102	1.895642823
Proj00022-3UG-PASHybrid Discount Rate Scenario	0.005958739	-0.014098027	0.119657405	-0.292866154	10.24343237	2.949658134	0.987735776	2.38044322	2.386401959
Proj00022-3UG-PASSocietal Discount Rate Scenario	0.005958739	-0.014098027	0.186677201	-0.47705303	15.82789575	4.384276836	0.987735776	2.38044322	2.386401959
Proj00022-3UG-PASWACC Discount Rate Scenario	0.005958739	-0.014098027	0.119657405	-0.292866154	9.954133805	2.757541376	0.987735776	2.38044322	2.386401959
Proj00022-3UG-UGAShybrid Discount Rate Scenario	9.74E-05	-0.014098027	0.002024082	-0.292866154	2.339404136	0.661646744	2.538937	0.71090236	0.710999796
Proj00022-3UG-UGASSocietal Discount Rate Scenario	9.74E-05	-0.014098027	0.003297051	-0.47705303	3.742436018	1.016852906	2.538937	0.71090236	0.710999796
Proj00022-3UG-UGASWACC Discount Rate Scenario	9.74E-05	-0.014098027	0.002024082	-0.292866154	2.270876415	0.617056624	2.538937	0.71090236	0.710999796
Proj00023-3UG-ALT1Hybrid Discount Rate Scenario	0.067996629	0	1.36465712	0	152.7471779	97.62581084	1.049	25.92079	25.98878663
Proj00023-3UG-ALT1Societal Discount Rate Scenario	0.067996629	0	2.127382114	0	226.5025941	140.5053243	1.049	25.92079	25.98878663
Proj00023-3UG-ALT1WACC Discount Rate Scenario	0.067996629	0	1.36465712	0	139.4509891	85.05624372	1.049	25.92079	25.98878663
Proj00023-3UG-PASHybrid Discount Rate Scenario	0.012173024	-3.060005643	0.252489504	-63.567199	342.5363424	206.300128	3.045321429	102.3228	102.334973
Proj00023-3UG-PASSocietal Discount Rate Scenario	0.012173024	-3.060005643	0.410509886	-103.5453378	533.7968748	311.333704	3.045321429	102.3228	102.334973
Proj00023-3UG-PASWACC Discount Rate Scenario	0.012173024	-3.060005643	0.252489504	-63.567199	311.4856088	177.6725824	3.045321429	102.3228	102.334973
Proj00023-3UG-UGAShybrid Discount Rate Scenario	0.011622667	-3.060005643	0.241444121	-63.567199	341.2998486	205.5098436	3.059	102.1706	102.1822227
Proj00023-3UG-UGASSocietal Discount Rate Scenario	0.011622667	-3.060005643	0.393291091	-103.5453378	531.9633282	310.1963084	3.059	102.1706	102.1822227
Proj00023-3UG-UGASWACC Discount Rate Scenario	0.011622667	-3.060005643	0.241444121	-63.567199	310.3567481	176.9840491	3.059	102.1706	102.1822227
Proj00024-3UG-ALT1Hybrid Discount Rate Scenario	0.003137037	0	0.062958713	0	1.529617387	0.705462121	0.912275	1.0399935	1.043130537
Proj00024-3UG-ALT1Societal Discount Rate Scenario	0.003137037	0	0.098147174	0.00E+00	2.343001207	1.022384957	0.912275	1.0399935	1.043130537
Proj00024-3UG-ALT1WACC Discount Rate Scenario	0.003137037	0	0.062958713	0	1.444153496	0.631585734	0.912275	1.0399935	1.043130537
Proj00024-3UG-PASHybrid Discount Rate Scenario	0.000428021	-0.218223379	0.008891509	-4.533275606	6.002537825	3.200523507	2.549712	3.13614576	3.136573781
Proj00024-3UG-PASSocietal Discount Rate Scenario	0.000428021	-0.218223379	0.014483481	-7.384304503	9.281381625	4.734106145	2.549712	3.13614576	3.136573781
Proj00024-3UG-PASWACC Discount Rate Scenario	0.000428021	-0.218223379	0.008891509	-4.533275606	5.441874881	2.787145882	2.549712	3.13614576	3.136573781
Proj00024-3UG-UGAShybrid Discount Rate Scenario	0.000428021	-0.218223379	0.008891509	-4.533275606	6.002537825	3.200523507	2.549712	3.13614576	3.136573781
Proj00024-3UG-UGASSocietal Discount Rate Scenario	0.000428021	-0.218223379	0.014483481	-7.384304503	9.281381625	4.734106145	2.549712	3.13614576	3.136573781
Proj00024-3UG-UGASWACC Discount Rate Scenario	0.000428021	-0.218223379	0.008891509	-4.533275606	5.441874881	2.787145882	2.549712	3.13614576	3.136573781
Proj00025-3UG-ALT1Hybrid Discount Rate Scenario	0.007815079	0	0.156844592	0	12.74855189	5.020716099	1.487546	4.22463064	4.232445719
Proj00025-3UG-ALT1Societal Discount Rate Scenario	0.007815079	0	0.244507119	0	19.1470489	7.20092073	1.487546	4.22463064	4.232445719
Proj00025-3UG-ALT1WACC Discount Rate Scenario	0.007815079	0	0.156844592	0	12.19703132	4.56878028	1.487546	4.22463064	4.232445719
Proj00025-3UG-PASHybrid Discount Rate Scenario	0.001245784	-0.465820254	0.025879364	-9.676743191	25.51805723	9.203164144	3.740208	13.38994464	13.39119042
Proj00025-3UG-PASSocietal Discount Rate Scenario	0.001245784	-0.465820254	0.042155193	-15.7625577	40.25453014	13.82755036	3.740208	13.38994464	13.39119042
Proj00025-3UG-PASWACC Discount Rate Scenario	0.001245784	-0.465820254	0.025879364	-9.676743191	24.45394237	8.369801423	3.740208	13.38994464	13.39119042
Proj00025-3UG-UGAShybrid Discount Rate Scenario	0.001245784	-0.465820254	0.025879364	-9.676743191	25.51805723	9.203164144	3.740208	13.38994464	13.39119042
Proj00025-3UG-UGASSocietal Discount Rate Scenario	0.001245784	-0.465820254	0.042155193	-15.7625577	40.25453014	13.82755036	3.740208	13.38994464	13.39119042
Proj00025-3UG-UGASWACC Discount Rate Scenario	0.001245784	-0.465820254	0.025879364	-9.676743191	24.45394237	8.369801423	3.740208	13.38994464	13.39119042
Proj00026-3UG-ALT1Hybrid Discount Rate Scenario	0.009328548	0	0.187219129	0	4.22089949	1.593467557	1.049	3.55611	3.565438548
Proj00026-3UG-ALT1Societal Discount Rate Scenario	0.009328548	0	0.291858387	0	6.391936769	2.299670609	1.049	3.55611	3.565438548
Proj00026-3UG-ALT1WACC Discount Rate Scenario	0.009328548	0	0.187219129	0	4.047574343	1.454638221	1.049	3.55611	3.565438548
Proj00026-3UG-PASHybrid Discount Rate Scenario	0.001144867	-0.652841282	0.023782954	-13.56158791	10.50410761	3.589635965	3.070367781	10.10151	10.10265487
Proj00026-3UG-PASSocietal Discount Rate Scenario	0.001144867	-0.652841282	0.038740325	-22.09062575	16.56362635	5.392724756	3.070367781	10.10151	10.10265487
Proj00026-3UG-PASWACC Discount Rate Scenario	0.001144867	-0.652841282	0.023782954	-13.56158791	10.10595088	3.28829392	3.070367781	10.10151	10.10265487
Proj00026-3UG-UGAShybrid Discount Rate Scenario	0.001144867	-0.652841282	0.023782954	-13.56158791	10.50410761	3.589635965	3.070367781	10.10151	10.10265487
Proj00026-3UG-UGASSocietal Discount Rate Scenario	0.001144867	-0.652841282	0.038740325	-22.09062575	16.56362635	5.392724756	3.070367781	10.10151	10.10265487
Proj00026-3UG-UGASWACC Discount Rate Scenario	0.001144867	-0.652841282	0.023782954	-13.56158791	10.10595088	3.28829392	3.070367781	10.10151	10.10265487
Proj00027-3UG-ALT1Hybrid Discount Rate Scenario	0.003632351	0	0.0728994	0	27.28203869	17.72958056	0.575159	0.75920988	0.762842231
Proj00027-3UG-ALT1Societal Discount Rate Scenario	0.003632351	0	0.113643842	0.00E+00	40.1235439	25.08450676	0.575159	0.75920988	0.762842231
Proj00027-3UG-ALT1WACC Discount Rate Scenario	0.003632351	0	0.0728994	0	24.98984564	15.56607837	0.575159	0.75920988	0.762842231
Proj00027-3UG-PASHybrid Discount Rate Scenario	0.000455858	-0.213161893	0.009469797	-4.428130546	119.5819231	79.64422346	2.467274	3.23212894	3.232584798
Proj00027-3UG-PASSocietal Discount Rate Scenario	0.000455858	-0.213161893	0.015425461	-7.213032513	177.0681816	115.276196	2.467274	3.23212894	3.232584798
Proj00027-3UG-PASWACC Discount Rate Scenario	0.000455858	-0.213161893	0.009469797	-4.428130546	105.6505656	68.68670704	2.467274	3.23212894	3.232584798
Proj00027-3UG-UGAShybrid Discount Rate Scenario	0.000455858	-0.213161893	0.009469797	-4.428130546	119.5819231	79.64422346	2.467274	3.23212894	3.232584798
Proj00027-3UG-UGASSocietal Discount Rate Scenario	0.000455858	-0.213161893	0.015425461	-7.213032513	177.0681816	115.276196	2.467274	3.23212894	3.232584798
Proj00027-3UG-UGASWACC Discount Rate Scenario	0.000455858	-0.213161893	0.009469797	-4.428130546	105.6505656	68.68670704	2.467274	3.23212894	3.232584798
Proj00028-3UG-ALT1Hybrid Discount Rate Scenario	0.008805717	0	0.176726172	0	15.17891349	12.56135864	1.049	3.3568	3.365605717
Proj00028-3UG-ALT1Societal Discount Rate Scenario	0.008805717	0	0.275500778	0.00E+00	21.46038302	17.34465202	1.049	3.3568	3.365605717
Proj00028-3UG-ALT1WACC Discount Rate Scenario	0.008805717	0	0.176726172	0	13.56389784	10.98152036	1.049	3.3568	3.365605717
Proj00028-3UG-PASHybrid Discount Rate Scenario	0.002515677	-0.565349738	0.051193949	-11.74432453	96.57414124	68.30396801	2.736696793	9.38687	9.389385677
Proj00028-3UG-PASSocietal Discount Rate Scenario	0.002515677	-0.565349738	0.081264229	-19.1304646	139.2905722	97.45880159	2.736696793	9.38687	9.389385677
Proj00028-3UG-PASWACC Discount Rate Scenario	0.002515677	-0.565349738	0.051193949	-11.74432453	83.90060194	58.77367471	2.736696793	9.38687	9.389385677
Proj00028-3UG-UGAShybrid Discount Rate Scenario	0.001002194	-0.565349738	0.020819138	-11.74432453	93.96306239	66.14316131	3.059	8.80992	8.810922194
Proj00028-3UG-UGASSocietal Discount Rate Scenario	0.001002194	-0.565349738	0.033912532	-19.1304646	135.598954	94.47517209	3.059	8.80992	8.810922194
Proj00028-3UG-UGASWACC Discount Rate Scenario	0.001002194	-0.565349738	0.020819138	-11.74432453	81.56733831	56.88463202	3.059	8.80992	8.810922194

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sorter	present_value_project_costs	benefit_cost_ratio_scaled	benefit_cost_ratio_unscaled	backcasted_total_mitigation_benefit	backcasted_present_value_project_costs	backcasted_benefit_cost_ratio	unit_cost_percentage_difference	bcr_percentage_difference
Proj00001-3UG-ALT1Hybrid Discount Rate Scenario	4.175564131	3.382626698	2.172198699					
Proj00001-3UG-ALT1Societal Discount Rate Scenario	4.269708556	5.374957738	3.327677349					
Proj00001-3UG-ALT1WACC Discount Rate Scenario	4.175564131	3.120917891	1.925619367					
Proj00001-3UG-PASHybrid Discount Rate Scenario	15.45556846	-17.87607651	-12.19569106					
Proj00001-3UG-PASSocietal Discount Rate Scenario	15.47207157	-8.628000488	-5.833829331					
Proj00001-3UG-PASWACC Discount Rate Scenario	15.45556846	-15.64126101	-10.57618225					
Proj00001-3UG-UGASHybrid Discount Rate Scenario	15.45556846	-17.87607651	-12.19569106	132.9105814	15.45556846	-17.87607651		
Proj00001-3UG-UGASSocietal Discount Rate Scenario	15.47207157	-8.628000488	-5.833829331	188.2182487	15.47207157	-8.628000488		
Proj00001-3UG-UGASWACC Discount Rate Scenario	15.45556846	-15.64126101	-10.57618225	116.2944841	15.45556846	-15.64126101		
Proj00002-3UG-ALT1Hybrid Discount Rate Scenario	3.367204652	8.858891932	8.468899222					
Proj00002-3UG-ALT1Societal Discount Rate Scenario	3.446532914	12.07404556	11.47589278					
Proj00002-3UG-ALT1WACC Discount Rate Scenario	3.367204652	7.716106394	7.33134845					
Proj00002-3UG-PASHybrid Discount Rate Scenario	10.89085868	10.02249475	9.467479009					
Proj00002-3UG-PASSocietal Discount Rate Scenario	10.90411596	43.23257393	40.52304894					
Proj00002-3UG-PASWACC Discount Rate Scenario	10.89085868	8.631804238	8.084943048					
Proj00002-3UG-UGASHybrid Discount Rate Scenario	10.89085868	10.02249475	9.467479009	53.03112106	10.89085868	10.02249475		
Proj00002-3UG-UGASSocietal Discount Rate Scenario	10.90411596	43.23257393	40.52304894	77.07430896	10.90411596	43.23257393		
Proj00002-3UG-UGASWACC Discount Rate Scenario	10.89085868	8.631804238	8.084943048	45.672686	10.89085868	8.631804238		
Proj00003-3UG-ALT1Hybrid Discount Rate Scenario	10.94014009	4.476031543	3.962043717					
Proj00003-3UG-ALT1Societal Discount Rate Scenario	11.19788003	6.242564066	5.460985416					
Proj00003-3UG-ALT1WACC Discount Rate Scenario	10.94014009	3.922717172	3.415474088					
Proj00003-3UG-PASHybrid Discount Rate Scenario	48.99728187	8.123494488	6.430676908					
Proj00003-3UG-PASSocietal Discount Rate Scenario	49.04965544	53.38180705	42.04093713					
Proj00003-3UG-PASWACC Discount Rate Scenario	48.99728187	7.017135363	5.48870456					
Proj00003-3UG-UGASHybrid Discount Rate Scenario	48.99728187	8.123494488	6.430676908	177.5998674	48.99728187	8.123494488		
Proj00003-3UG-UGASSocietal Discount Rate Scenario	49.04965544	53.38180705	42.04093713	258.8745883	49.04965544	53.38180705		
Proj00003-3UG-UGASWACC Discount Rate Scenario	48.99728187	7.017135363	5.48870456	153.4120952	48.99728187	7.017135363		
Proj00004-3UG-ALT1Hybrid Discount Rate Scenario	0.382141798	4.753384682	2.226167112					
Proj00004-3UG-ALT1Societal Discount Rate Scenario	0.395414568	6.798240133	3.020129346					
Proj00004-3UG-ALT1WACC Discount Rate Scenario	0.382141798	4.505811197	2.011223234					
Proj00004-3UG-PASHybrid Discount Rate Scenario	1.64702961	6.465067129	2.868165933					
Proj00004-3UG-PASSocietal Discount Rate Scenario	1.649211831	141.7810266	59.36124038					
Proj00004-3UG-PASWACC Discount Rate Scenario	1.64702961	6.120390026	2.577288994					
Proj00004-3UG-UGASHybrid Discount Rate Scenario	1.64702961	6.465067129	2.868165933	4.288551256	1.64702961	6.465067129		
Proj00004-3UG-UGASSocietal Discount Rate Scenario	1.649211831	141.7810266	59.36124038	6.645552173	1.649211831	141.7810266		
Proj00004-3UG-UGASWACC Discount Rate Scenario	1.64702961	6.120390026	2.577288994	4.059912421	1.64702961	6.120390026		
Proj00005-3UG-ALT1Hybrid Discount Rate Scenario	8.467876249	0.566852243	0.228795945					
Proj00005-3UG-ALT1Societal Discount Rate Scenario	8.642892375	0.835588878	0.320907449					
Proj00005-3UG-ALT1WACC Discount Rate Scenario	8.467876249	0.541663251	0.20801896					
Proj00005-3UG-PASHybrid Discount Rate Scenario	22.61234423	-7.067477065	-3.545642282					
Proj00005-3UG-PASSocietal Discount Rate Scenario	22.64230444	-1.545734432	-0.743194947					
Proj00005-3UG-PASWACC Discount Rate Scenario	22.61234423	-6.488484923	-3.125731318					
Proj00005-3UG-UGASHybrid Discount Rate Scenario	22.61234423	-7.067477065	-3.545642282	18.95904526	22.61234423	-7.067477065		
Proj00005-3UG-UGASSocietal Discount Rate Scenario	22.64230444	-1.545734432	-0.743194947	28.69019489	22.64230444	-1.545734432		
Proj00005-3UG-UGASWACC Discount Rate Scenario	22.61234423	-6.488484923	-3.125731318	17.40585477	22.61234423	-6.488484923		
Proj00006-3UG-ALT1Hybrid Discount Rate Scenario	1.858565701	7.680943113	6.395957176					
Proj00006-3UG-ALT1Societal Discount Rate Scenario	1.896532118	10.63475459	8.671257895					
Proj00006-3UG-ALT1WACC Discount Rate Scenario	1.858565701	6.853172231	5.585093876					
Proj00006-3UG-PASHybrid Discount Rate Scenario	3.744576081	14.7728216	11.59450806					
Proj00006-3UG-PASSocietal Discount Rate Scenario	3.763881123	34.38238693	26.5848009					
Proj00006-3UG-PASWACC Discount Rate Scenario	3.744576081	13.36882918	10.36024046					
Proj00006-3UG-UGASHybrid Discount Rate Scenario	2.467260175	14.45857348	11.08692372	19.63197458	2.467260175	14.45857348		
Proj00006-3UG-UGASSocietal Discount Rate Scenario	2.469897034	43.03852706	32.50820069	28.52156761	2.469897034	43.03852706		
Proj00006-3UG-UGASWACC Discount Rate Scenario	2.467260175	12.65421061	9.550658816	17.18199526	2.467260175	12.65421061		
Proj00007-3UG-ALT1Hybrid Discount Rate Scenario	10.72724679	2.671073457	0.814057381					
Proj00007-3UG-ALT1Societal Discount Rate Scenario	10.98004811	4.119801477	1.19982261					
Proj00007-3UG-ALT1WACC Discount Rate Scenario	10.72724679	2.584471768	0.753861163					
Proj00007-3UG-PASHybrid Discount Rate Scenario	13.75806565	2.84860771	0.922546542					
Proj00007-3UG-PASSocietal Discount Rate Scenario	13.97992573	4.775209803	1.473319233					
Proj00007-3UG-PASWACC Discount Rate Scenario	13.75806565	2.73777597	0.845953989					
Proj00007-3UG-UGASHybrid Discount Rate Scenario	4.550184704	3.351936617	1.231434111	10.79478867	4.550184704	3.351936617		
Proj00007-3UG-UGASSocietal Discount Rate Scenario	4.555049265	7.34924869	2.548903027	17.55772758	4.555049265	7.34924869		
Proj00007-3UG-UGASWACC Discount Rate Scenario	4.550184704	3.171965373	1.108057805	10.21519789	4.550184704	3.171965373		
Proj00008-3UG-ALT1Hybrid Discount Rate Scenario	24.58313605	2.664742185	0.901825496					
Proj00008-3UG-ALT1Societal Discount Rate Scenario	25.15942408	3.872619719	1.263553364					
Proj00008-3UG-ALT1WACC Discount Rate Scenario	24.58313605	2.576447328	0.834454683					
Proj00008-3UG-PASHybrid Discount Rate Scenario	76.50668191	1.949770233	0.869253668					
Proj00008-3UG-PASSocietal Discount Rate Scenario	76.88034416	2.965101082	1.270430411					
Proj00008-3UG-PASWACC Discount Rate Scenario	76.50668191	1.826962987	0.781289477					
Proj00008-3UG-UGASHybrid Discount Rate Scenario	63.40086652	1.735785556	0.831060777	103.2671201	63.40086652	1.735785556		
Proj00008-3UG-UGASSocietal Discount Rate Scenario	63.46863619	2.687591429	1.235927583	153.4697903	63.46863619	2.687591429		
Proj00008-3UG-UGASWACC Discount Rate Scenario	63.40086652	1.605803325	0.738847794	95.53408497	63.40086652	1.605803325		
Proj00009-3UG-ALT1Hybrid Discount Rate Scenario	9.175263785	3.442275415	2.606660397					
Proj00009-3UG-ALT1Societal Discount Rate Scenario	9.391024427	4.954617904	3.674427711					
Proj00009-3UG-ALT1WACC Discount Rate Scenario	9.175263785	3.084711143	2.259181255					
Proj00009-3UG-PASHybrid Discount Rate Scenario	37.48927309	5.040079878	3.613260511					
Proj00009-3UG-PASSocietal Discount Rate Scenario	37.54297941	40.39738881	28.4796358					

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sorter	present_value_project_costs	benefit_cost_ratio_scaled	benefit_cost_ratio_unscaled	backcasted_total_mitigation_benefit	backcasted_present_value_project_costs	backcasted_benefit_cost_ratio	unit_cost_percentage_difference	bcr_percentage_difference
Proj00009-3UG-PASWACC Discount Rate Scenario	37.48927309	4.44797905	3.095373308					
Proj00009-3UG-UGASHybrid Discount Rate Scenario	36.96062319	4.965603674	3.555399496	79.49555797	36.96062319	4.965603674		
Proj00009-3UG-UGASSocietal Discount Rate Scenario	37.00013066	41.4535946	29.18740872	119.0624817	37.00013066	41.4535946		
Proj00009-3UG-UGASWACC Discount Rate Scenario	36.96062319	4.37569315	3.040682773	70.0515368	36.96062319	4.37569315		
Proj00010-3UG-ALT1Hybrid Discount Rate Scenario	10.85565161	4.497408194	3.984318451					
Proj00010-3UG-ALT1Societal Discount Rate Scenario	11.09703187	6.494996502	5.705193886					
Proj00010-3UG-ALT1WACC Discount Rate Scenario	10.85565161	3.879285665	3.37310993					
Proj00010-3UG-PASHybrid Discount Rate Scenario	34.82266779	3.344732182	2.915105128					
Proj00010-3UG-PASSocietal Discount Rate Scenario	34.89407119	6.27528382	5.419273426					
Proj00010-3UG-PASWACC Discount Rate Scenario	34.82266779	2.845986101	2.422706995					
Proj00010-3UG-UGASHybrid Discount Rate Scenario	33.30283999	3.260575045	2.837713987	83.97096633	33.30283999	3.260575045		
Proj00010-3UG-UGASSocietal Discount Rate Scenario	33.33843762	6.230344601	5.372928645	131.0933315	33.33843762	6.230344601		
Proj00010-3UG-UGASWACC Discount Rate Scenario	33.30283999	2.771091154	2.354519836	71.36508094	33.30283999	2.771091154		
Proj00011-3UG-ALT1Hybrid Discount Rate Scenario	7.268049995	6.434502514	6.039209196					
Proj00011-3UG-ALT1Societal Discount Rate Scenario	7.41652051	8.851599427	8.246834879					
Proj00011-3UG-ALT1WACC Discount Rate Scenario	7.268049995	5.612228418	5.222155814					
Proj00011-3UG-PASHybrid Discount Rate Scenario	25.4725293	24.17115033	19.44047563					
Proj00011-3UG-PASSocietal Discount Rate Scenario	25.49976173	-51.289457	-41.12861362					
Proj00011-3UG-PASWACC Discount Rate Scenario	25.4725293	20.80776012	16.62572047					
Proj00011-3UG-UGASHybrid Discount Rate Scenario	25.4725293	24.17115033	19.44047563	167.4656272	25.4725293	24.17115033		
Proj00011-3UG-UGASSocietal Discount Rate Scenario	25.49976173	-51.289457	-41.12861362	241.4247643	25.49976173	-51.289457		
Proj00011-3UG-UGASWACC Discount Rate Scenario	25.4725293	20.80776012	16.62572047	144.1629609	25.4725293	20.80776012		
Proj00012-3UG-ALT1Hybrid Discount Rate Scenario	7.328491235	2.840235347	2.132471067					
Proj00012-3UG-ALT1Societal Discount Rate Scenario	7.478196474	4.00236638	2.910045733					
Proj00012-3UG-ALT1WACC Discount Rate Scenario	7.328491235	2.566069227	1.867852508					
Proj00012-3UG-PASHybrid Discount Rate Scenario	25.17353863	4.940324909	3.442287502					
Proj00012-3UG-PASSocietal Discount Rate Scenario	25.23994113	11.21591364	7.671045311					
Proj00012-3UG-PASWACC Discount Rate Scenario	25.17353863	4.335114609	2.967681112					
Proj00012-3UG-UGASHybrid Discount Rate Scenario	23.13364932	5.247172025	3.633666671	73.25675436	23.13364932	5.247172025		
Proj00012-3UG-UGASSocietal Discount Rate Scenario	23.15838128	13.0432189	8.877081574	107.1794334	23.15838128	13.0432189		
Proj00012-3UG-UGASWACC Discount Rate Scenario	23.13364932	4.593592382	3.128378656	64.13200618	23.13364932	4.593592382		
Proj00013-3UG-ALT1Hybrid Discount Rate Scenario	13.55610107	4.058017802	3.681925037					
Proj00013-3UG-ALT1Societal Discount Rate Scenario	13.79439469	5.812998246	5.241597421					
Proj00013-3UG-ALT1WACC Discount Rate Scenario	13.55610107	3.499963845	3.128721853					
Proj00013-3UG-PASHybrid Discount Rate Scenario	43.48758481	3.945705109	3.504633674					
Proj00013-3UG-PASSocietal Discount Rate Scenario	43.53576618	9.244694842	8.155285486					
Proj00013-3UG-PASWACC Discount Rate Scenario	43.48758481	3.356233709	2.921416947					
Proj00013-3UG-UGASHybrid Discount Rate Scenario	43.47247051	3.945287326	3.504214016	110.7406806	43.47247051	3.945287326		
Proj00013-3UG-UGASSocietal Discount Rate Scenario	43.52034321	9.246784403	8.157018444	170.4147453	43.52034321	9.246784403		
Proj00013-3UG-UGASWACC Discount Rate Scenario	43.47247051	3.355848146	2.921029838	94.19565087	43.47247051	3.355848146		
Proj00014-3UG-ALT1Hybrid Discount Rate Scenario	1.650847638	4.914828179	3.358366622					
Proj00014-3UG-ALT1Societal Discount Rate Scenario	1.689740216	6.949383384	4.565633097					
Proj00014-3UG-ALT1WACC Discount Rate Scenario	1.650847638	4.495993814	2.960296503					
Proj00014-3UG-PASHybrid Discount Rate Scenario	5.359077724	12.44878523	8.214946208					
Proj00014-3UG-PASSocietal Discount Rate Scenario	5.364806096	-22.42018532	-14.1297324					
Proj00014-3UG-PASWACC Discount Rate Scenario	5.359077724	11.34175566	7.170180212					
Proj00014-3UG-UGASHybrid Discount Rate Scenario	5.359077724	12.44878523	8.214946208	16.95373567	5.359077724	12.44878523		
Proj00014-3UG-UGASSocietal Discount Rate Scenario	5.364806096	-22.42018532	-14.1297324	25.6997506	5.364806096	-22.42018532		
Proj00014-3UG-UGASWACC Discount Rate Scenario	5.359077724	11.34175566	7.170180212	15.44609565	5.359077724	11.34175566		
Proj00015-3UG-ALT1Hybrid Discount Rate Scenario	34.62393313	3.238255256	1.617636728					
Proj00015-3UG-ALT1Societal Discount Rate Scenario	35.32831938	4.727954721	2.264260668					
Proj00015-3UG-ALT1WACC Discount Rate Scenario	34.62393313	3.048961061	1.448697014					
Proj00015-3UG-PASHybrid Discount Rate Scenario	106.6875045	3.236228033	1.674702135					
Proj00015-3UG-PASSocietal Discount Rate Scenario	106.9113687	5.799870886	2.877795822					
Proj00015-3UG-PASWACC Discount Rate Scenario	106.6875045	2.99016474	1.476829571					
Proj00015-3UG-UGASHybrid Discount Rate Scenario	100.8544398	3.139815258	1.630040303	252.8178234	100.8544398	3.139815258		
Proj00015-3UG-UGASSocietal Discount Rate Scenario	100.9622439	5.721062305	2.844957241	388.1122239	100.9622439	5.721062305		
Proj00015-3UG-UGASWACC Discount Rate Scenario	100.8544398	2.891367656	1.431199971	232.8128305	100.8544398	2.891367656		
Proj00016-3UG-ALT1Hybrid Discount Rate Scenario	33.67204768	2.53190647	0.732933216					
Proj00016-3UG-ALT1Societal Discount Rate Scenario	34.46533095	3.856241393	1.072880522					
Proj00016-3UG-ALT1WACC Discount Rate Scenario	33.67204768	2.457686381	0.683387001					
Proj00016-3UG-PASHybrid Discount Rate Scenario	39.75066223	2.366819171	0.68407593					
Proj00016-3UG-PASSocietal Discount Rate Scenario	40.51036388	3.719149708	1.032768142					
Proj00016-3UG-PASWACC Discount Rate Scenario	39.75066223	2.296909581	0.6374984					
Proj00016-3UG-UGASHybrid Discount Rate Scenario	7.912889524	1.561964811	0.445905431	10.24882637	7.912889524	1.561964811		
Proj00016-3UG-UGASSocietal Discount Rate Scenario	7.922521772	2.929688049	0.801898921	16.76139527	7.922521772	2.929688049		
Proj00016-3UG-UGASWACC Discount Rate Scenario	7.912889524	1.513082525	0.413813108	9.928085428	7.912889524	1.513082525		
Proj00017-3UG-ALT1Hybrid Discount Rate Scenario	10.99118248	10.68838974	10.13589198					
Proj00017-3UG-ALT1Societal Discount Rate Scenario	11.21496853	15.0808324	14.23487011					
Proj00017-3UG-ALT1WACC Discount Rate Scenario	10.99118248	9.188187775	8.642994732					
Proj00017-3UG-PASHybrid Discount Rate Scenario	22.43202956	10.73408414	9.932491052					
Proj00017-3UG-PASSocietal Discount Rate Scenario	22.5823784	21.23188993	19.57230343					
Proj00017-3UG-PASWACC Discount Rate Scenario	22.43202956	9.145698244	8.386345247					
Proj00017-3UG-UGASHybrid Discount Rate Scenario	15.90438389	10.74135047	9.766230383	99.91190995	15.90438389	10.74135047		
Proj00017-3UG-UGASSocietal Discount Rate Scenario	15.92138711	29.09990497	26.39478597	150.3318957	15.92138711	29.09990497		
Proj00017-3UG-UGASWACC Discount Rate Scenario	15.90438389	9.094560259	8.186180101	84.59410089	15.90438389	9.094560259		
Proj00018-3UG-ALT1Hybrid Discount Rate Scenario	3.084341959	3.590245101	3.148830584					
Proj00018-3UG-ALT1Societal Discount Rate Scenario	3.156879488	4.965273364	4.282906459					
Proj00018-3UG-ALT1WACC Discount Rate Scenario	3.084341959	3.183153513	2.747608217					
Proj00018-3UG-PASHybrid Discount Rate Scenario	10.49864663	13.66943273	10.13075127					
Proj00018-3UG-PASSocietal Discount Rate Scenario	10.50983056	76.92959715	56.65904264					
Proj00018-3UG-PASWACC Discount Rate Scenario	10.49864663	11.85560146	8.732568008					

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sorter	present_value_project_costs	benefit_cost_ratio_scaled	benefit_cost_ratio_unscaled	backcasted_total_mitigation_benefit	backcasted_present_value_project_costs	backcasted_benefit_cost_ratio	unit_cost_percentage_difference	bcr_percentage_difference
Proj00018-3UG-UGASHybrid Discount Rate Scenario	10.49864663	13.66943273	10.13075127	65.49198666	10.49864663	13.66943273		
Proj00018-3UG-UGASSocietal Discount Rate Scenario	10.50983056	76.92959715	56.65904264	93.29913782	10.50983056	76.92959715		
Proj00018-3UG-UGASWACC Discount Rate Scenario	10.49864663	11.85560146	8.732568008	56.8016909	10.49864663	11.85560146		
Proj00019-3UG-ALT1Hybrid Discount Rate Scenario	13.08763604	4.841428139	4.108265371					
Proj00019-3UG-ALT1Societal Discount Rate Scenario	13.35093204	6.9422777	5.820383284					
Proj00019-3UG-ALT1WACC Discount Rate Scenario	13.08763604	4.232320352	3.508830497					
Proj00019-3UG-PASHybrid Discount Rate Scenario	58.31708172	3.84210948	3.13831398					
Proj00019-3UG-PASSocietal Discount Rate Scenario	58.36809139	9.207199205	7.448032431					
Proj00019-3UG-PASWACC Discount Rate Scenario	58.31708172	3.313175051	2.638083694					
Proj00019-3UG-UGASHybrid Discount Rate Scenario	58.31708172	3.84210948	3.13831398	141.8464688	58.31708172	3.84210948		
Proj00019-3UG-UGASSocietal Discount Rate Scenario	58.36809139	9.207199205	7.448032431	216.482914	58.36809139	9.207199205		
Proj00019-3UG-UGASWACC Discount Rate Scenario	58.31708172	3.313175051	2.638083694	122.3187897	58.31708172	3.313175051		
Proj00020-3UG-ALT1Hybrid Discount Rate Scenario	7.342840875	1.198877226	0.701891985					
Proj00020-3UG-ALT1Societal Discount Rate Scenario	7.494089558	1.731940196	0.976563617					
Proj00020-3UG-ALT1WACC Discount Rate Scenario	7.342840875	1.109751147	0.619218359					
Proj00020-3UG-PASHybrid Discount Rate Scenario	23.3462748	5.016266703	2.617006976					
Proj00020-3UG-PASSocietal Discount Rate Scenario	23.37123409	-3.748168292	-1.872813008					
Proj00020-3UG-PASWACC Discount Rate Scenario	23.3462748	4.66010282	2.295231643					
Proj00020-3UG-UGASHybrid Discount Rate Scenario	23.3462748	5.016266703	2.617006976	19.78988217	23.3462748	5.016266703		
Proj00020-3UG-UGASSocietal Discount Rate Scenario	23.37123409	-3.748168292	-1.872813008	30.85302874	23.37123409	-3.748168292		
Proj00020-3UG-UGASWACC Discount Rate Scenario	23.3462748	4.66010282	2.295231643	18.38476524	23.3462748	4.66010282		
Proj00021-3UG-ALT1Hybrid Discount Rate Scenario	26.56748589	2.531429606	0.785915346					
Proj00021-3UG-ALT1Societal Discount Rate Scenario	27.1845183	3.803103541	1.13300685					
Proj00021-3UG-ALT1WACC Discount Rate Scenario	26.56748589	2.452636602	0.729923584					
Proj00021-3UG-PASHybrid Discount Rate Scenario	80.37068228	2.968716735	0.960007056					
Proj00021-3UG-PASSocietal Discount Rate Scenario	80.47706607	7.158587374	2.208205472					
Proj00021-3UG-PASWACC Discount Rate Scenario	80.37068228	2.853449374	0.879913977					
Proj00021-3UG-UGASHybrid Discount Rate Scenario	80.37068228	2.968716735	0.960007056	155.3729858	80.37068228	2.968716735		
Proj00021-3UG-UGASSocietal Discount Rate Scenario	80.47706607	7.158587374	2.208205472	249.2066867	80.47706607	7.158587374		
Proj00021-3UG-UGASWACC Discount Rate Scenario	80.37068228	2.853449374	0.879913977	149.3402667	80.37068228	2.853449374		
Proj00022-3UG-ALT1Hybrid Discount Rate Scenario	2.754666352	3.246511296	0.939780907					
Proj00022-3UG-ALT1Societal Discount Rate Scenario	2.829055955	4.833470555	1.346770812					
Proj00022-3UG-ALT1WACC Discount Rate Scenario	2.754666352	3.155831581	0.879185615					
Proj00022-3UG-PASHybrid Discount Rate Scenario	3.423236506	3.272274907	0.942271296					
Proj00022-3UG-PASSocietal Discount Rate Scenario	3.490256302	5.252846999	1.45502193					
Proj00022-3UG-PASWACC Discount Rate Scenario	3.423236506	3.179858186	0.880899402					
Proj00022-3UG-UGASHybrid Discount Rate Scenario	0.988614377	3.362429152	0.95098588	2.339404136	0.988614377	3.362429152		
Proj00022-3UG-UGASSocietal Discount Rate Scenario	0.989887346	7.297553875	1.982809814	3.742436018	0.989887346	7.297553875		
Proj00022-3UG-UGASWACC Discount Rate Scenario	0.988614377	3.263934153	0.886896432	2.270876415	0.988614377	3.263934153		
Proj00023-3UG-ALT1Hybrid Discount Rate Scenario	37.33752948	4.089940288	2.614017112					
Proj00023-3UG-ALT1Societal Discount Rate Scenario	38.10025448	5.942596943	3.68634414					
Proj00023-3UG-ALT1WACC Discount Rate Scenario	37.33752948	3.733923117	2.277455876					
Proj00023-3UG-PASHybrid Discount Rate Scenario	142.2560713	4.247515763	2.558160805					
Proj00023-3UG-PASSocietal Discount Rate Scenario	142.4140917	12.69332353	7.403301926					
Proj00023-3UG-PASWACC Discount Rate Scenario	142.2560713	3.862480763	2.203173798					
Proj00023-3UG-UGASHybrid Discount Rate Scenario	142.0338028	4.243879868	2.555404262	341.2998486	142.0338028	4.243879868		
Proj00023-3UG-UGASSocietal Discount Rate Scenario	142.1856498	12.7188141	7.416543534	531.9633282	142.1856498	12.7188141		
Proj00023-3UG-UGASWACC Discount Rate Scenario	142.0338028	3.859119072	2.200701366	310.3567481	142.0338028	3.859119072		
Proj00024-3UG-ALT1Hybrid Discount Rate Scenario	1.506261692	1.015505736	0.46835296					
Proj00024-3UG-ALT1Societal Discount Rate Scenario	1.541450153	1.519998036	0.663261769					
Proj00024-3UG-ALT1WACC Discount Rate Scenario	1.506261692	0.958766664	0.419306776					
Proj00024-3UG-PASHybrid Discount Rate Scenario	4.361234595	-46.48385471	-24.78496163					
Proj00024-3UG-PASSocietal Discount Rate Scenario	4.366826566	-3.14881127	-1.606097819					
Proj00024-3UG-PASWACC Discount Rate Scenario	4.361234595	-42.14206202	-21.5837514					
Proj00024-3UG-UGASHybrid Discount Rate Scenario	4.361234595	-46.48385471	-24.78496163	6.002537825	4.361234595	-46.48385471		
Proj00024-3UG-UGASSocietal Discount Rate Scenario	4.366826566	-3.14881127	-1.606097819	9.281381625	4.366826566	-3.14881127		
Proj00024-3UG-UGASWACC Discount Rate Scenario	4.361234595	-42.14206202	-21.5837514	5.441874881	4.361234595	-42.14206202		
Proj00025-3UG-ALT1Hybrid Discount Rate Scenario	6.019786995	2.117774584	0.834035508					
Proj00025-3UG-ALT1Societal Discount Rate Scenario	6.107449521	3.135031871	1.179038927					
Proj00025-3UG-ALT1WACC Discount Rate Scenario	6.019786995	2.02615663	0.758960456					
Proj00025-3UG-PASHybrid Discount Rate Scenario	18.60844454	2.743255877	0.989363489					
Proj00025-3UG-PASSocietal Discount Rate Scenario	18.62472036	11.61573041	3.990037808					
Proj00025-3UG-PASWACC Discount Rate Scenario	18.60844454	2.62886083	0.899774882					
Proj00025-3UG-UGASHybrid Discount Rate Scenario	18.60844454	2.743255877	0.989363489	25.51805723	18.60844454	2.743255877		
Proj00025-3UG-UGASSocietal Discount Rate Scenario	18.62472036	11.61573041	3.990037808	40.25453014	18.62472036	11.61573041		
Proj00025-3UG-UGASWACC Discount Rate Scenario	18.60844454	2.62886083	0.899774882	24.45394237	18.60844454	2.62886083		
Proj00026-3UG-ALT1Hybrid Discount Rate Scenario	5.122388587	0.824010015	0.311079008					
Proj00026-3UG-ALT1Societal Discount Rate Scenario	5.227027845	1.222862583	0.439957597					
Proj00026-3UG-ALT1WACC Discount Rate Scenario	5.122388587	0.790173233	0.283976547					
Proj00026-3UG-PASHybrid Discount Rate Scenario	14.04265853	21.84605955	7.465593837					
Proj00026-3UG-PASSocietal Discount Rate Scenario	14.0576159	-2.061841873	-0.67128692					
Proj00026-3UG-PASWACC Discount Rate Scenario	14.04265853	21.01798771	6.838873652					
Proj00026-3UG-UGASHybrid Discount Rate Scenario	14.04265853	21.84605955	7.465593837	10.50410761	14.04265853	21.84605955		
Proj00026-3UG-UGASSocietal Discount Rate Scenario	14.0576159	-2.061841873	-0.67128692	16.56362635	14.0576159	-2.061841873		
Proj00026-3UG-UGASWACC Discount Rate Scenario	14.04265853	21.01798771	6.838873652	10.10595088	14.04265853	21.01798771		
Proj00027-3UG-ALT1Hybrid Discount Rate Scenario	1.126530871	24.21774646	15.7382112					
Proj00027-3UG-ALT1Societal Discount Rate Scenario	1.167275314	34.37367689	21.48979494					
Proj00027-3UG-ALT1WACC Discount Rate Scenario	1.126530871	22.18301033	13.81771148					
Proj00027-3UG-PASHybrid Discount Rate Scenario	4.49501834	1871.124768	1246.210759					
Proj00027-3UG-PASSocietal Discount Rate Scenario	4.500974004	-65.17261522	-42.42914282					
Proj00027-3UG-PASWACC Discount Rate Scenario	4.49501834	1653.137739	1074.756079					
Proj00027-3UG-UGASHybrid Discount Rate Scenario	4.49501834	1871.124768	1246.210759	119.5819231	4.49501834	1871.124768		
Proj00027-3UG-UGASSocietal Discount Rate Scenario	4.500974004	-65.17261522	-42.42914282	177.0681816	4.500974004	-65.17261522		
Proj00027-3UG-UGASWACC Discount Rate Scenario	4.49501834	1653.137739	1074.756079	105.6505656	4.49501834	1653.137739		
Proj00028-3UG-ALT1Hybrid Discount Rate Scenario	4.835293212	3.131285157	2.591305095					
Proj00028-3UG-ALT1Societal Discount Rate Scenario	4.934067818	4.332716201	3.501776028					
Proj00028-3UG-ALT1WACC Discount Rate Scenario	4.835293212	2.798120695	2.265397435					
Proj00028-3UG-PASHybrid Discount Rate Scenario	13.07829214	69.4362038	49.11012598					
Proj00028-3UG-PASSocietal Discount Rate Scenario	13.10836241	-23.49121603	-16.43632966					
Proj00028-3UG-PASWACC Discount Rate Scenario	13.07829214	60.32400827	42.25790468					
Proj00028-3UG-UGASHybrid Discount Rate Scenario	12.24722611	167.861127	118.1620237	93.96306239	12.24722611	167.861127		
Proj00028-3UG-UGASSocietal Discount Rate Scenario	12.26031951	-20.00717093	-13.93949481	135.598954	12.26031951	-20.00717093		
Proj00028-3UG-UGASWACC Discount Rate Scenario	12.24722611	145.7166783	101.6220438	81.56733831	12.24722611	145.7166783		

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sorter	risk_model	reporting_date	calculated_date
Proj00001-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00001-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00001-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00001-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00001-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00001-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00001-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00001-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00001-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00002-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00002-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00002-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00002-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00002-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00002-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00002-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00002-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00002-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00003-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00003-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00003-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00003-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00003-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00003-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00003-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00003-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00003-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00004-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00004-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00004-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00004-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00004-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00004-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00004-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00004-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00004-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00005-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00005-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00005-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00005-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00005-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00005-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00005-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00005-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00005-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00006-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00006-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00006-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00006-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00006-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00006-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00006-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00006-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00006-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00007-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00007-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00007-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00007-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00007-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00007-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00007-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00007-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00007-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00008-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00008-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00008-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00008-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00008-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00008-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00008-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00008-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00008-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00009-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00009-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00009-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00009-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00009-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026

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sorter	risk_model	reporting_date	calculated_date
Proj00009-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00009-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00009-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00009-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00010-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00010-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00010-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00010-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00010-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00010-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00010-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00010-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00010-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00011-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00011-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00011-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00011-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00011-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00011-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00011-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00011-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00011-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00012-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00012-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00012-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00012-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00012-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00012-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00012-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00012-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00012-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00013-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00013-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00013-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00013-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00013-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00013-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00013-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00013-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00013-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00014-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00014-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00014-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00014-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00014-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00014-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00014-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00014-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00014-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00015-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00015-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00015-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00015-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00015-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00015-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00015-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00015-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00015-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00016-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00016-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00016-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00016-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00016-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00016-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00016-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00016-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00016-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00017-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00017-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00017-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00017-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00017-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00017-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00017-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00017-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00017-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00018-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00018-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00018-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00018-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00018-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00018-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026

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sorter	risk_model	reporting_date	calculated_date
Proj00018-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00018-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00018-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00019-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00019-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00019-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00019-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00019-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00019-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00019-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00019-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00019-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00020-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00020-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00020-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00020-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00020-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00020-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00020-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00020-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00020-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00021-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00021-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00021-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00021-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00021-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00021-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00021-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00021-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00021-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00022-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00022-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00022-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00022-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00022-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00022-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00022-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00022-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00022-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00023-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00023-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00023-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00023-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00023-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00023-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00023-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00023-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00023-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00024-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00024-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00024-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00024-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00024-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00024-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00024-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00024-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00024-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00025-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00025-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00025-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00025-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00025-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00025-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00025-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00025-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00025-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00026-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00026-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00026-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00026-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00026-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00026-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00026-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00026-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00026-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00027-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00027-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00027-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00027-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00027-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00027-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00027-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00027-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00027-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00028-3UG-ALT1Hybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00028-3UG-ALT1Societal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00028-3UG-ALT1WACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00028-3UG-PASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00028-3UG-PASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00028-3UG-PASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00028-3UG-UGASHybrid Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00028-3UG-UGASSocietal Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026
Proj00028-3UG-UGASWACC Discount Rate Scenario	WBCA v1c0	11/2/2026	10/30/2026

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rru_id	oeis_subproject_id	oeis_project_id	mitigation_type	capex_labor	capex_materials	capex_permits_environmental	capex_other_costs	capex	incremental_om_costs	total_project_costs	initial_application_total_costs	reporting_date	calculated_date
Proj00001-3UG-ALT1		Proj00001	Overhead Hardening	1.869371342	0.480664495	0.081095435	0.456260439	2.88739171	0.008392938	2.895784648		9/30/2026	9/10/2026
Proj00001-3UG-PAS		Proj00001	Undergrounding	8.197879416	1.273424436	0.467210708	1.17931777	11.11783233	0.001263181	11.11909551		9/30/2026	9/10/2026
Proj00001-3UG-UGAS	Proj00001-3UG-UGAS	Proj00001	Undergrounding	8.19710839	1.274513932	0.466955695	1.179254313	11.11783233	0.001263181	11.11909551		9/30/2026	9/10/2026
Proj00002-3UG-ALT1		Proj00002	Overhead Hardening	1.504628508	0.386879528	0.06527248	0.367237075	2.32401759	0.007072083	2.331089673		9/30/2026	9/10/2026
Proj00002-3UG-PAS		Proj00002	Undergrounding	5.774765953	0.897879998	0.328964767	0.830770722	7.83238144	0.001014738	7.833396178		9/30/2026	9/10/2026
Proj00002-3UG-UGAS	Proj00002-3UG-UGAS	Proj00002	Undergrounding	5.774765953	0.897879998	0.328964767	0.830770722	7.83238144	0.001014738	7.833396178		9/30/2026	9/10/2026
Proj00003-3UG-ALT1		Proj00003	Overhead Hardening	4.888579004	1.256982123	0.212072064	1.193163259	7.55079645	0.022977413	7.573773863		9/30/2026	9/10/2026
Proj00003-3UG-PAS		Proj00003	Undergrounding	25.98644679	4.040459989	1.480341451	3.73846825	35.24571648	0.004008776	35.24972526		9/30/2026	9/10/2026
Proj00003-3UG-UGAS	Proj00003-3UG-UGAS	Proj00003	Undergrounding	25.98644679	4.040459989	1.480341451	3.73846825	35.24571648	0.004008776	35.24972526		9/30/2026	9/10/2026
Proj00004-3UG-ALT1		Proj00004	Overhead Hardening	0.167195327	0.042990312	0.007253122	0.04080763	0.25824639	0.001183262	0.259429652		9/30/2026	9/10/2026
Proj00004-3UG-PAS		Proj00004	Undergrounding	0.873170746	0.135763519	0.049740962	0.125616293	1.18429152	0.000167032	1.184458552		9/30/2026	9/10/2026
Proj00004-3UG-UGAS	Proj00004-3UG-UGAS	Proj00004	Undergrounding	0.873170746	0.135763519	0.049740962	0.125616293	1.18429152	0.000167032	1.184458552		9/30/2026	9/10/2026
Proj00005-3UG-ALT1		Proj00005	Overhead Hardening	3.804285482	0.978181766	0.16503419	0.928518013	5.87601945	0.015602618	5.891622068		9/30/2026	9/10/2026
Proj00005-3UG-PAS		Proj00005	Undergrounding	11.98790671	1.863919981	0.682901951	1.724607022	16.25933566	0.002293214	16.26162887		9/30/2026	9/10/2026
Proj00005-3UG-UGAS	Proj00005-3UG-UGAS	Proj00005	Undergrounding	11.98790671	1.863919981	0.682901951	1.724607022	16.25933566	0.002293214	16.26162887		9/30/2026	9/10/2026
Proj00006-3UG-ALT1		Proj00006	Overhead Hardening	0.835353843	0.214791424	0.036238591	0.203886142	1.29027	0.003384691	1.293654691		9/30/2026	9/10/2026
Proj00006-3UG-PAS		Proj00006	Overhead Hardening, Undergrounding	1.907694907	0.337133019	0.103722905	0.325149168	2.6737	0.001687792	2.675387792		9/30/2026	9/10/2026
Proj00006-3UG-UGAS	Proj00006-3UG-UGAS	Proj00006	Undergrounding	1.308548963	0.203457586	0.074542676	0.188250775	1.7748	0.00020183	1.77500183		9/30/2026	9/10/2026
Proj00007-3UG-ALT1		Proj00007	Overhead Hardening	4.793383841	1.232504945	0.207942391	1.169928824	7.40376	0.022537137	7.426297137		9/30/2026	9/10/2026
Proj00007-3UG-PAS		Proj00007	Overhead Hardening, Undergrounding	6.527725769	1.433159206	0.315963676	1.351401349	9.62825	0.019717407	9.647967407		9/30/2026	9/10/2026
Proj00007-3UG-UGAS	Proj00007-3UG-UGAS	Proj00007	Undergrounding	2.413258321	0.375221506	0.137473444	0.34717673	3.27313	0.000372343	3.273502343		9/30/2026	9/10/2026
Proj00008-3UG-ALT1		Proj00008	Overhead Hardening	10.98731803	2.825128187	0.476642234	2.6816922	16.97078065	0.051375848	17.0221565		9/30/2026	9/10/2026
Proj00008-3UG-PAS		Proj00008	Overhead Hardening, Undergrounding	39.4979438	6.721971285	2.172793587	6.263312363	54.65602104	0.032457426	54.68847846		9/30/2026	9/10/2026
Proj00008-3UG-UGAS	Proj00008-3UG-UGAS	Proj00008	Undergrounding	33.62560495	5.228221947	1.915513007	4.837454598	45.60679451	0.005187225	45.61198173		9/30/2026	9/10/2026
Proj00009-3UG-ALT1		Proj00009	Overhead Hardening	4.100281868	1.054290214	0.177874846	1.000762322	6.33320925	0.019234975	6.352444225		9/30/2026	9/10/2026
Proj00009-3UG-PAS		Proj00009	Overhead Hardening, Undergrounding	19.83929613	3.106478908	1.127301506	2.876808093	26.94988464	0.004289801	26.95417444		9/30/2026	9/10/2026
Proj00009-3UG-UGAS	Proj00009-3UG-UGAS	Proj00009	Undergrounding	19.60262349	3.04788171	1.116681181	2.820077178	26.58726356	0.00302398	26.59028754		9/30/2026	9/10/2026
Proj00010-3UG-ALT1		Proj00010	Overhead Hardening	4.862819163	1.250358591	0.210954573	1.186876013	7.51100834	0.021518953	7.532527293		9/30/2026	9/10/2026
Proj00010-3UG-PAS		Proj00010	Overhead Hardening, Undergrounding	18.34179499	2.920872815	1.035631088	2.706746951	25.00504584	0.005916783	25.01096262		9/30/2026	9/10/2026
Proj00010-3UG-UGAS	Proj00010-3UG-UGAS	Proj00010	Undergrounding	17.66266305	2.746250149	1.00616958	2.540990139	23.95607292	0.002724713	23.95879763		9/30/2026	9/10/2026
Proj00011-3UG-ALT1		Proj00011	Overhead Hardening	3.266708931	0.839956708	0.141713513	0.797310848	5.04569	0.013236087	5.058926087		9/30/2026	9/10/2026
Proj00011-3UG-PAS		Proj00011	Undergrounding	13.50973584	2.100539083	0.769594324	1.943540758	18.32341	0.002084424	18.32549442		9/30/2026	9/10/2026
Proj00011-3UG-UGAS	Proj00011-3UG-UGAS	Proj00011	Undergrounding	13.50973584	2.100539083	0.769594324	1.943540758	18.32341	0.002084424	18.32549442		9/30/2026	9/10/2026
Proj00012-3UG-ALT1		Proj00012	Overhead Hardening	3.293874909	0.846941795	0.142892004	0.803941292	5.08765	0.013346162	5.100996162		9/30/2026	9/10/2026
Proj00012-3UG-PAS		Proj00012	Overhead Hardening, Undergrounding	13.18612773	2.143414901	0.738704467	1.988862903	18.05711	0.005607944	18.06271794		9/30/2026	9/10/2026
Proj00012-3UG-UGAS	Proj00012-3UG-UGAS	Proj00012	Undergrounding	12.26927595	1.907668215	0.698930404	1.76508543	16.64096	0.001893033	16.64285303		9/30/2026	9/10/2026
Proj00013-3UG-ALT1		Proj00013	Overhead Hardening	6.125188071	1.574946809	0.265717559	1.494984402	9.46083684	0.021243782	9.482080622		9/30/2026	9/10/2026
Proj00013-3UG-PAS		Proj00013	Overhead Hardening, Undergrounding	23.06188663	3.586430054	1.313648949	3.318415256	31.28038089	0.003691789	31.28407268		9/30/2026	9/10/2026
Proj00013-3UG-UGAS	Proj00013-3UG-UGAS	Proj00013	Undergrounding	23.05509327	3.584683302	1.313354246	3.316757188	31.269888	0.003664271	31.27355227		9/30/2026	9/10/2026
Proj00014-3UG-ALT1		Proj00014	Overhead Hardening	0.73767779	0.189676344	0.032001294	0.180046192	1.13940162	0.003467258	1.142868878		9/30/2026	9/10/2026
Proj00014-3UG-PAS		Proj00014	Undergrounding	2.842267618	0.441925311	0.161912346	0.408894965	3.85500024	0.000438461	3.855438701		9/30/2026	9/10/2026
Proj00014-3UG-UGAS	Proj00014-3UG-UGAS	Proj00014	Undergrounding	2.842267618	0.441925311	0.161912346	0.408894965	3.85500024	0.000438461	3.855438701		9/30/2026	9/10/2026

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rru_id	oeis_subproject_id	oeis_project_id	mitigation_type	capex_labor	capex_materials	capex_permits_environmental	capex_other_costs	capex	incremental_om_costs	total_project_costs	initial_application_total_costs	reporting_date	calculated_date
Proj00015-3UG-ALT1		Proj00015	Overhead Hardening	15.56455156	4.002055207	0.67520778	3.798864873	24.04067942	0.062795753	24.10347517		9/30/2026	9/10/2026
Proj00015-3UG-PAS		Proj00015	Overhead Hardening, Undergrounding	56.13080438	8.975911475	3.164783576	8.330631666	76.6021311	0.018598251	76.62072935		9/30/2026	9/10/2026
Proj00015-3UG-UGAS	Proj00015-3UG-UGAS	Proj00015	Undergrounding	53.48967195	8.316753771	3.047087554	7.695143623	72.5486569	0.008251537	72.55690843		9/30/2026	9/10/2026
Proj00016-3UG-ALT1		Proj00016	Overhead Hardening	15.04628508	3.868795276	0.652724797	3.672370748	23.2401759	0.070720887	23.31089679		9/30/2026	9/10/2026
Proj00016-3UG-PAS		Proj00016	Overhead Hardening, Undergrounding	18.42237148	4.310409718	0.856181267	4.075926276	27.66488874	0.067605659	27.7324944		9/30/2026	9/10/2026
Proj00016-3UG-UGAS	Proj00016-3UG-UGAS	Proj00016	Undergrounding	4.195728388	0.652365936	0.239013463	0.603606853	5.69071464	0.000737271	5.691451911		9/30/2026	9/10/2026
Proj00017-3UG-ALT1		Proj00017	Overhead Hardening	4.940731436	1.270391883	0.214334496	1.205892186	7.63135	0.019950438	7.651300438		9/30/2026	9/10/2026
Proj00017-3UG-PAS		Proj00017	Overhead Hardening, Undergrounding	11.36905291	2.065911291	0.607791655	1.929584146	15.97234	0.013189169	15.98552917		9/30/2026	9/10/2026
Proj00017-3UG-UGAS	Proj00017-3UG-UGAS	Proj00017	Undergrounding	8.435127216	1.311521898	0.480514653	1.213496233	11.44066	0.00130146	11.44196146		9/30/2026	9/10/2026
Proj00018-3UG-ALT1		Proj00018	Overhead Hardening	1.378337685	0.354406839	0.059793842	0.336413073	2.128951438	0.006466692	2.13541813		9/30/2026	9/10/2026
Proj00018-3UG-PAS		Proj00018	Undergrounding	5.569833521	0.863372116	0.317752153	0.801184905	7.552142695	0.00085604	7.552998735		9/30/2026	9/10/2026
Proj00018-3UG-UGAS	Proj00018-3UG-UGAS	Proj00018	Undergrounding	5.568147675	0.865754294	0.31719457	0.801046156	7.552142695	0.00085604	7.552998735		9/30/2026	9/10/2026
Proj00019-3UG-ALT1		Proj00019	Overhead Hardening	5.885774515	1.513387293	0.255331529	1.436550354	9.09104369	0.023472734	9.114516424		9/30/2026	9/10/2026
Proj00019-3UG-PAS		Proj00019	Undergrounding	30.93891055	4.81048568	1.762463029	4.450940743	41.9628	0.003904381	41.96670438		9/30/2026	9/10/2026
Proj00019-3UG-UGAS	Proj00019-3UG-UGAS	Proj00019	Undergrounding	30.93891055	4.81048568	1.762463029	4.450940743	41.9628	0.003904381	41.96670438		9/30/2026	9/10/2026
Proj00020-3UG-ALT1		Proj00020	Overhead Hardening	3.299280913	0.84833182	0.143126523	0.805260744	5.096	0.01348376	5.10948376		9/30/2026	9/10/2026
Proj00020-3UG-PAS		Proj00020	Undergrounding	12.38204503	1.925201931	0.705354397	1.781308641	16.79391	0.001910434	16.79582043		9/30/2026	9/10/2026
Proj00020-3UG-UGAS	Proj00020-3UG-UGAS	Proj00020	Undergrounding	12.38204503	1.925201931	0.705354397	1.781308641	16.79391	0.001910434	16.79582043		9/30/2026	9/10/2026
Proj00021-3UG-ALT1		Proj00021	Overhead Hardening	11.879033	3.05441154	0.515325834	2.899334493	18.34810487	0.055008194	18.40311306		9/30/2026	9/10/2026
Proj00021-3UG-PAS		Proj00021	Undergrounding	42.61219071	6.619707537	2.428450675	6.130058083	57.790407	0.008142826	57.79854983		9/30/2026	9/10/2026
Proj00021-3UG-UGAS	Proj00021-3UG-UGAS	Proj00021	Undergrounding	42.60850641	6.624913622	2.427232115	6.129754856	57.790407	0.008142826	57.79854983		9/30/2026	9/10/2026
Proj00022-3UG-ALT1		Proj00022	Overhead Hardening	1.222994114	0.314463924	0.053054862	0.29849812	1.88901102	0.006631803	1.895642823		9/30/2026	9/10/2026
Proj00022-3UG-PAS		Proj00022	Overhead Hardening, Undergrounding	1.605047384	0.359424346	0.076749142	0.339222348	2.38044322	0.005958739	2.386401959		9/30/2026	9/10/2026
Proj00022-3UG-UGAS	Proj00022-3UG-UGAS	Proj00022	Undergrounding	0.524143873	0.081495649	0.02985833	0.075404508	0.71090236	9.74E-05	0.710999796		9/30/2026	9/10/2026
Proj00023-3UG-ALT1		Proj00023	Overhead Hardening	16.7817833	4.315037474	0.728012665	4.09595661	25.92079	0.067996629	25.98878663		9/30/2026	9/10/2026
Proj00023-3UG-PAS		Proj00023	Overhead Hardening, Undergrounding	75.42828391	11.73785852	4.295501813	10.86115576	102.3228	0.012173024	102.334973		9/30/2026	9/10/2026
Proj00023-3UG-UGAS	Proj00023-3UG-UGAS	Proj00023	Undergrounding	75.32974573	11.71252176	4.291227115	10.8371054	102.1706	0.011622667	102.1822227		9/30/2026	9/10/2026
Proj00024-3UG-ALT1		Proj00024	Overhead Hardening	0.673318427	0.173127861	0.029209312	0.1643379	1.0399935	0.003137037	1.043130537		9/30/2026	9/10/2026
Proj00024-3UG-PAS		Proj00024	Undergrounding	2.312260696	0.359518056	0.131720022	0.332646986	3.13614576	0.000428021	3.136573781		9/30/2026	9/10/2026
Proj00024-3UG-UGAS	Proj00024-3UG-UGAS	Proj00024	Undergrounding	2.312260696	0.359518056	0.131720022	0.332646986	3.13614576	0.000428021	3.136573781		9/30/2026	9/10/2026
Proj00025-3UG-ALT1		Proj00025	Overhead Hardening	2.735134073	0.703274843	0.118653197	0.667568527	4.22463064	0.007815079	4.232445719		9/30/2026	9/10/2026
Proj00025-3UG-PAS		Proj00025	Undergrounding	9.872322616	1.534981864	0.562385789	1.420254372	13.38994464	0.001245784	13.39119042		9/30/2026	9/10/2026
Proj00025-3UG-UGAS	Proj00025-3UG-UGAS	Proj00025	Undergrounding	9.872322616	1.534981864	0.562385789	1.420254372	13.38994464	0.001245784	13.39119042		9/30/2026	9/10/2026
Proj00026-3UG-ALT1		Proj00026	Overhead Hardening	2.302316689	0.59198612	0.099877092	0.561930099	3.55611	0.009328548	3.565438548		9/30/2026	9/10/2026
Proj00026-3UG-PAS		Proj00026	Undergrounding	7.450232308	1.15454105	0.425080536	1.071656106	10.10151	0.001144867	10.10265487		9/30/2026	9/10/2026
Proj00026-3UG-UGAS	Proj00026-3UG-UGAS	Proj00026	Undergrounding	7.447780279	1.158005882	0.424269542	1.071454298	10.10151	0.001144867	10.10265487		9/30/2026	9/10/2026
Proj00027-3UG-ALT1		Proj00027	Overhead Hardening	0.49153192	0.126385773	0.021323208	0.119968978	0.75920988	0.003632351	0.762842231		9/30/2026	9/10/2026
Proj00027-3UG-PAS		Proj00027	Undergrounding	2.383028496	0.370521271	0.135751374	0.3428278	3.23212894	0.000455858	3.232584798		9/30/2026	9/10/2026
Proj00027-3UG-UGAS	Proj00027-3UG-UGAS	Proj00027	Undergrounding	2.383028496	0.370521271	0.135751374	0.3428278	3.23212894	0.000455858	3.232584798		9/30/2026	9/10/2026
Proj00028-3UG-ALT1		Proj00028	Overhead Hardening	2.173278291	0.558806957	0.09427926	0.530435492	3.3568	0.008805717	3.365605717		9/30/2026	9/10/2026
Proj00028-3UG-PAS		Proj00028	Overhead Hardening, Undergrounding	6.869031239	1.105986942	0.386226227	1.025625592	9.38687	0.002515677	9.389385677		9/30/2026	9/10/2026
Proj00028-3UG-UGAS	Proj00028-3UG-UGAS	Proj00028	Undergrounding	6.495499033	1.009941996	0.370021979	0.934456992	8.80992	0.001002194	8.810922194		9/30/2026	9/10/2026

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rru_id	oeis_subproject_id	oeis_project_id	current_asset_system_list	current_risk_model	total_circuit_miles	total_non_hftd_miles
Proj00001-3UG-UGAS	Proj00001-3UG-UGAS	Proj00001	PUEBLO 21031970, 213 support structure, 1 capacitor bank, 17 fuse, 12 switch, 69 transformer	WBCA_v1c0	3.14	0
Proj00002-3UG-UGAS	Proj00002-3UG-UGAS	Proj00002	MIWUK 1701CB, 191 support structure, 0 capacitor bank, 8 fuse, 10 switch, 97 transformer	WBCA_v1c0	2.57	0
Proj00003-3UG-UGAS	Proj00003-3UG-UGAS	Proj00003	FORESTHILL 1101CB, 347 support structure, 1 capacitor bank, 26 fuse, 11 switch, 115 transformer	WBCA_v1c0	8.37	0
Proj00004-3UG-UGAS	Proj00004-3UG-UGAS	Proj00004	DUNBAR 1103799422, 12 support structure, 0 capacitor bank, 0 fuse, 2 switch, 6 transformer	WBCA_v1c0	0.43	0
Proj00005-3UG-UGAS	Proj00005-3UG-UGAS	Proj00005	FORESTHILL 11011820, 128 support structure, 0 capacitor bank, 5 fuse, 8 switch, 26 transformer	WBCA_v1c0	5.67	0
Proj00006-3UG-UGAS	Proj00006-3UG-UGAS	Proj00006	GIRVAN 1101CB, 96 support structure, 1 capacitor bank, 6 fuse, 8 switch, 15 transformer	WBCA_v1c0	0.52	0
Proj00007-3UG-UGAS	Proj00007-3UG-UGAS	Proj00007	LOS GATOS 1107812664, 140 support structure, 0 capacitor bank, 18 fuse, 7 switch, 40 transformer	WBCA_v1c0	1.16	0
Proj00008-3UG-UGAS	Proj00008-3UG-UGAS	Proj00008	GEYSERVILLE 1102904170, 279 support structure, 0 capacitor bank, 9 fuse, 1 switch, 75 transformer	WBCA_v1c0	8.76	0
Proj00009-3UG-UGAS	Proj00009-3UG-UGAS	Proj00009	ALTO 1124430, 379 support structure, 1 capacitor bank, 24 fuse, 5 switch, 141 transformer	WBCA_v1c0	6.53	0
Proj00010-3UG-UGAS	Proj00010-3UG-UGAS	Proj00010	LAURELES 111268454, 445 support structure, 1 capacitor bank, 25 fuse, 9 switch, 157 transformer	WBCA_v1c0	6.66	0
Proj00011-3UG-UGAS	Proj00011-3UG-UGAS	Proj00011	EL DORADO PH 2101668674, 352 support structure, 1 capacitor bank, 19 fuse, 12 switch, 150 transformer	WBCA_v1c0	4.81	0
Proj00012-3UG-UGAS	Proj00012-3UG-UGAS	Proj00012	JESSUP 110168362, 245 support structure, 2 capacitor bank, 17 fuse, 12 switch, 98 transformer	WBCA_v1c0	3.5	0
Proj00013-3UG-UGAS	Proj00013-3UG-UGAS	Proj00013	BEN LOMOND 0401944178, 330 support structure, 1 capacitor bank, 24 fuse, 21 switch, 130 transformer	WBCA_v1c0	7.71	0
Proj00014-3UG-UGAS	Proj00014-3UG-UGAS	Proj00014	WOODACRE 1102851, 67 support structure, 0 capacitor bank, 0 fuse, 0 switch, 23 transformer	WBCA_v1c0	1.26	0
Proj00015-3UG-UGAS	Proj00015-3UG-UGAS	Proj00015	ELECTRA 1101CB, 508 support structure, 0 capacitor bank, 18 fuse, 11 switch, 137 transformer	WBCA_v1c0	18.99	0
Proj00016-3UG-UGAS	Proj00016-3UG-UGAS	Proj00016	MARIPOSA 210110070, 553 support structure, 0 capacitor bank, 18 fuse, 8 switch, 198 transformer	WBCA_v1c0	1.4	0
Proj00017-3UG-UGAS	Proj00017-3UG-UGAS	Proj00017	SAN RAFAEL 1108322, 431 support structure, 1 capacitor bank, 22 fuse, 13 switch, 141 transformer	WBCA_v1c0	2.93	0
Proj00018-3UG-UGAS	Proj00018-3UG-UGAS	Proj00018	OAKLAND X 1104CR288, 164 support structure, 1 capacitor bank, 14 fuse, 14 switch, 42 transformer	WBCA_v1c0	2.4	0
Proj00019-3UG-UGAS	Proj00019-3UG-UGAS	Proj00019	WOODACRE 1102137662, 429 support structure, 1 capacitor bank, 22 fuse, 9 switch, 130 transformer	WBCA_v1c0	8.53	0
Proj00020-3UG-UGAS	Proj00020-3UG-UGAS	Proj00020	CAMP EVERS 210510294, 213 support structure, 1 capacitor bank, 17 fuse, 13 switch, 64 transformer	WBCA_v1c0	4.9	0
Proj00021-3UG-UGAS	Proj00021-3UG-UGAS	Proj00021	STILLWATER 11021466, 623 support structure, 1 capacitor bank, 14 fuse, 8 switch, 219 transformer	WBCA_v1c0	20.14	0
Proj00022-3UG-UGAS	Proj00022-3UG-UGAS	Proj00022	KONOCTI 1102714370, 107 support structure, 1 capacitor bank, 6 fuse, 3 switch, 29 transformer	WBCA_v1c0	0.28	0
Proj00023-3UG-UGAS	Proj00023-3UG-UGAS	Proj00023	PLACERVILLE 21069712, 590 support structure, 0 capacitor bank, 37 fuse, 11 switch, 170 transformer	WBCA_v1c0	24.51	0
Proj00024-3UG-UGAS	Proj00024-3UG-UGAS	Proj00024	MENLO 1102628458, 41 support structure, 0 capacitor bank, 4 fuse, 4 switch, 11 transformer	WBCA_v1c0	1.14	0
Proj00025-3UG-UGAS	Proj00025-3UG-UGAS	Proj00025	ALTO 11221260, 194 support structure, 0 capacitor bank, 9 fuse, 5 switch, 64 transformer	WBCA_v1c0	2.84	0
Proj00026-3UG-UGAS	Proj00026-3UG-UGAS	Proj00026	CAMP EVERS 2105534190, 130 support structure, 0 capacitor bank, 9 fuse, 3 switch, 41 transformer	WBCA_v1c0	3.39	0
Proj00027-3UG-UGAS	Proj00027-3UG-UGAS	Proj00027	CORTINA 1101302192, 352 support structure, 0 capacitor bank, 9 fuse, 13 switch, 66 transformer	WBCA_v1c0	1.32	0
Proj00028-3UG-UGAS	Proj00028-3UG-UGAS	Proj00028	VOLTA 1102CB, 102 support structure, 0 capacitor bank, 2 fuse, 4 switch, 12 transformer	WBCA_v1c0	2.65	0

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rru_id	current_pre_mitigated_overall_utility_risk_score	current_risk_percentage	change_type	change_date	previous_asset_system_list	previous_risk_model	previous_total_miles
Proj00001-3UG-UGAS	3.629913579	0.000963964					
Proj00002-3UG-UGAS	1.058066937	0.000280982					
Proj00003-3UG-UGAS	4.559386732	0.001210796					
Proj00004-3UG-UGAS	0.08607531	2.29E-05					
Proj00005-3UG-UGAS	0.376172021	9.99E-05					
Proj00006-3UG-UGAS	0.523526929	0.00139028					
Proj00007-3UG-UGAS	0.162418539	4.31E-05					
Proj00008-3UG-UGAS	1.819808305	0.000483271					
Proj00009-3UG-UGAS	1.561524351	0.00041468					
Proj00010-3UG-UGAS	1.298839711	0.000344921					
Proj00011-3UG-UGAS	3.305066424	0.000877698					
Proj00012-3UG-UGAS	1.422666285	0.000377805					
Proj00013-3UG-UGAS	2.267015988	0.000602032					
Proj00014-3UG-UGAS	0.436424292	0.000115897					
Proj00015-3UG-UGAS	4.545286607	0.001207052					
Proj00016-3UG-UGAS	0.11727282	3.11E-05					
Proj00017-3UG-UGAS	1.330681212	0.000353377					
Proj00018-3UG-UGAS	1.448780562	0.00038474					
Proj00019-3UG-UGAS	2.503002307	0.0006647					
Proj00020-3UG-UGAS	0.303614567	8.06E-05					
Proj00021-3UG-UGAS	2.148352717	0.000570519					
Proj00022-3UG-UGAS	0.02948208	7.83E-06					
Proj00023-3UG-UGAS	5.939598969	0.001577327					
Proj00024-3UG-UGAS	0.105837462	2.81E-05					
Proj00025-3UG-UGAS	0.290968962	7.73E-05					
Proj00026-3UG-UGAS	0.134146129	3.56E-05					
Proj00027-3UG-UGAS	3.086256341	0.00081959					
Proj00028-3UG-UGAS	2.020174328	0.00053648					

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rru_id	previous_non_hftd_miles	previous_pre_mitigated_risk_score	previous_risk_percentage	initial_application_total_miles	initial_application_non_hftd_miles	reporting_date	calculated_date
Proj00001-3UG-UGAS				3.14	0	9/30/2026	9/10/2026
Proj00002-3UG-UGAS				2.57	0	9/30/2026	9/10/2026
Proj00003-3UG-UGAS				8.37	0	9/30/2026	9/10/2026
Proj00004-3UG-UGAS				0.43	0	9/30/2026	9/10/2026
Proj00005-3UG-UGAS				5.67	0	9/30/2026	9/10/2026
Proj00006-3UG-UGAS				0.52	0	9/30/2026	9/10/2026
Proj00007-3UG-UGAS				1.16	0	9/30/2026	9/10/2026
Proj00008-3UG-UGAS				8.76	0	9/30/2026	9/10/2026
Proj00009-3UG-UGAS				6.53	0	9/30/2026	9/10/2026
Proj00010-3UG-UGAS				6.66	0	9/30/2026	9/10/2026
Proj00011-3UG-UGAS				4.81	0	9/30/2026	9/10/2026
Proj00012-3UG-UGAS				3.5	0	9/30/2026	9/10/2026
Proj00013-3UG-UGAS				7.71	0	9/30/2026	9/10/2026
Proj00014-3UG-UGAS				1.26	0	9/30/2026	9/10/2026
Proj00015-3UG-UGAS				18.99	0	9/30/2026	9/10/2026
Proj00016-3UG-UGAS				1.4	0	9/30/2026	9/10/2026
Proj00017-3UG-UGAS				2.93	0	9/30/2026	9/10/2026
Proj00018-3UG-UGAS				2.4	0	9/30/2026	9/10/2026
Proj00019-3UG-UGAS				8.53	0	9/30/2026	9/10/2026
Proj00020-3UG-UGAS				4.9	0	9/30/2026	9/10/2026
Proj00021-3UG-UGAS				20.14	0	9/30/2026	9/10/2026
Proj00022-3UG-UGAS				0.28	0	9/30/2026	9/10/2026
Proj00023-3UG-UGAS				24.51	0	9/30/2026	9/10/2026
Proj00024-3UG-UGAS				1.14	0	9/30/2026	9/10/2026
Proj00025-3UG-UGAS				2.84	0	9/30/2026	9/10/2026
Proj00026-3UG-UGAS				3.39	0	9/30/2026	9/10/2026
Proj00027-3UG-UGAS				1.32	0	9/30/2026	9/10/2026
Proj00028-3UG-UGAS				2.65	0	9/30/2026	9/10/2026

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rru_id	oeis_subproject_id	oeis_project_id	mitigation_type	associated_assets	hftd_tier2_miles	hftd_tier3_miles	wildfire_rebuild_miles
Proj00001-3UG-UGAS	Proj00001-3UG-UGAS	Proj00001	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	2.96	0	0
Proj00001-3UG-UGAS	Proj00001-3UG-UGAS	Proj00001	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	2.96	0	0
Proj00001-3UG-UGAS	Proj00001-3UG-UGAS	Proj00001	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	2.96	0	0
Proj00002-3UG-UGAS	Proj00002-3UG-UGAS	Proj00002	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	2.57	0
Proj00002-3UG-UGAS	Proj00002-3UG-UGAS	Proj00002	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	2.57	0
Proj00002-3UG-UGAS	Proj00002-3UG-UGAS	Proj00002	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	2.57	0
Proj00003-3UG-UGAS	Proj00003-3UG-UGAS	Proj00003	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	8.37	0
Proj00003-3UG-UGAS	Proj00003-3UG-UGAS	Proj00003	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	8.37	0
Proj00003-3UG-UGAS	Proj00003-3UG-UGAS	Proj00003	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	8.37	0
Proj00004-3UG-UGAS	Proj00004-3UG-UGAS	Proj00004	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	0.43	0
Proj00004-3UG-UGAS	Proj00004-3UG-UGAS	Proj00004	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	0.43	0
Proj00004-3UG-UGAS	Proj00004-3UG-UGAS	Proj00004	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	0.43	0
Proj00005-3UG-UGAS	Proj00005-3UG-UGAS	Proj00005	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	5.67	0
Proj00005-3UG-UGAS	Proj00005-3UG-UGAS	Proj00005	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	5.67	0
Proj00005-3UG-UGAS	Proj00005-3UG-UGAS	Proj00005	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	5.67	0
Proj00006-3UG-UGAS	Proj00006-3UG-UGAS	Proj00006	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.52	0	0
Proj00006-3UG-UGAS	Proj00006-3UG-UGAS	Proj00006	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.52	0	0
Proj00006-3UG-UGAS	Proj00006-3UG-UGAS	Proj00006	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.52	0	0
Proj00007-3UG-UGAS	Proj00007-3UG-UGAS	Proj00007	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	1.16	0
Proj00007-3UG-UGAS	Proj00007-3UG-UGAS	Proj00007	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	1.16	0
Proj00007-3UG-UGAS	Proj00007-3UG-UGAS	Proj00007	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	1.16	0
Proj00008-3UG-UGAS	Proj00008-3UG-UGAS	Proj00008	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	2.89	5.87	0
Proj00008-3UG-UGAS	Proj00008-3UG-UGAS	Proj00008	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	2.89	5.87	0
Proj00008-3UG-UGAS	Proj00008-3UG-UGAS	Proj00008	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	2.89	5.87	0
Proj00009-3UG-UGAS	Proj00009-3UG-UGAS	Proj00009	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	6.53	0
Proj00009-3UG-UGAS	Proj00009-3UG-UGAS	Proj00009	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	6.53	0
Proj00009-3UG-UGAS	Proj00009-3UG-UGAS	Proj00009	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	6.53	0
Proj00010-3UG-UGAS	Proj00010-3UG-UGAS	Proj00010	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	6.18	0	0
Proj00010-3UG-UGAS	Proj00010-3UG-UGAS	Proj00010	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	6.18	0	0
Proj00010-3UG-UGAS	Proj00010-3UG-UGAS	Proj00010	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	6.18	0	0
Proj00011-3UG-UGAS	Proj00011-3UG-UGAS	Proj00011	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	4.81	0
Proj00011-3UG-UGAS	Proj00011-3UG-UGAS	Proj00011	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	4.81	0
Proj00011-3UG-UGAS	Proj00011-3UG-UGAS	Proj00011	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	4.81	0
Proj00012-3UG-UGAS	Proj00012-3UG-UGAS	Proj00012	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	3.15	0	0
Proj00012-3UG-UGAS	Proj00012-3UG-UGAS	Proj00012	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	3.15	0	0
Proj00012-3UG-UGAS	Proj00012-3UG-UGAS	Proj00012	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	3.15	0	0
Proj00013-3UG-UGAS	Proj00013-3UG-UGAS	Proj00013	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	7.71	0
Proj00013-3UG-UGAS	Proj00013-3UG-UGAS	Proj00013	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	7.71	0
Proj00013-3UG-UGAS	Proj00013-3UG-UGAS	Proj00013	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	7.71	0
Proj00014-3UG-UGAS	Proj00014-3UG-UGAS	Proj00014	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	1.26	0
Proj00014-3UG-UGAS	Proj00014-3UG-UGAS	Proj00014	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	1.26	0
Proj00014-3UG-UGAS	Proj00014-3UG-UGAS	Proj00014	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	1.26	0

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rru_id	oeis_subproject_id	oeis_project_id	mitigation_type	associated_assets	hftd_tier2_miles	hftd_tier3_miles	wildfire_rebuild_miles
Proj00015-3UG-UGAS	Proj00015-3UG-UGAS	Proj00015	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	18.99	0	0
Proj00015-3UG-UGAS	Proj00015-3UG-UGAS	Proj00015	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	18.99	0	0
Proj00015-3UG-UGAS	Proj00015-3UG-UGAS	Proj00015	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	18.99	0	0
Proj00016-3UG-UGAS	Proj00016-3UG-UGAS	Proj00016	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	1.4	0	0
Proj00016-3UG-UGAS	Proj00016-3UG-UGAS	Proj00016	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	1.4	0	0
Proj00016-3UG-UGAS	Proj00016-3UG-UGAS	Proj00016	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	1.4	0	0
Proj00017-3UG-UGAS	Proj00017-3UG-UGAS	Proj00017	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.44	2.47	0
Proj00017-3UG-UGAS	Proj00017-3UG-UGAS	Proj00017	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.44	2.47	0
Proj00017-3UG-UGAS	Proj00017-3UG-UGAS	Proj00017	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.44	2.47	0
Proj00018-3UG-UGAS	Proj00018-3UG-UGAS	Proj00018	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.03	2.31	0
Proj00018-3UG-UGAS	Proj00018-3UG-UGAS	Proj00018	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.03	2.31	0
Proj00018-3UG-UGAS	Proj00018-3UG-UGAS	Proj00018	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.03	2.31	0
Proj00019-3UG-UGAS	Proj00019-3UG-UGAS	Proj00019	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	1.08	7.37	0
Proj00019-3UG-UGAS	Proj00019-3UG-UGAS	Proj00019	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	1.08	7.37	0
Proj00019-3UG-UGAS	Proj00019-3UG-UGAS	Proj00019	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	1.08	7.37	0
Proj00020-3UG-UGAS	Proj00020-3UG-UGAS	Proj00020	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	4.9	0
Proj00020-3UG-UGAS	Proj00020-3UG-UGAS	Proj00020	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	4.9	0
Proj00020-3UG-UGAS	Proj00020-3UG-UGAS	Proj00020	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	4.9	0
Proj00021-3UG-UGAS	Proj00021-3UG-UGAS	Proj00021	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	19.89	0	0
Proj00021-3UG-UGAS	Proj00021-3UG-UGAS	Proj00021	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	19.89	0	0
Proj00021-3UG-UGAS	Proj00021-3UG-UGAS	Proj00021	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	19.89	0	0
Proj00022-3UG-UGAS	Proj00022-3UG-UGAS	Proj00022	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.28	0	0
Proj00022-3UG-UGAS	Proj00022-3UG-UGAS	Proj00022	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.28	0	0
Proj00022-3UG-UGAS	Proj00022-3UG-UGAS	Proj00022	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.28	0	0
Proj00023-3UG-UGAS	Proj00023-3UG-UGAS	Proj00023	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	3.76	20.75	0
Proj00023-3UG-UGAS	Proj00023-3UG-UGAS	Proj00023	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	3.76	20.75	0
Proj00023-3UG-UGAS	Proj00023-3UG-UGAS	Proj00023	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	3.76	20.75	0
Proj00024-3UG-UGAS	Proj00024-3UG-UGAS	Proj00024	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.67	0	0
Proj00024-3UG-UGAS	Proj00024-3UG-UGAS	Proj00024	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.67	0	0
Proj00024-3UG-UGAS	Proj00024-3UG-UGAS	Proj00024	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.67	0	0
Proj00025-3UG-UGAS	Proj00025-3UG-UGAS	Proj00025	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.43	2.34	0
Proj00025-3UG-UGAS	Proj00025-3UG-UGAS	Proj00025	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.43	2.34	0
Proj00025-3UG-UGAS	Proj00025-3UG-UGAS	Proj00025	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0.43	2.34	0
Proj00026-3UG-UGAS	Proj00026-3UG-UGAS	Proj00026	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	3.29	0
Proj00026-3UG-UGAS	Proj00026-3UG-UGAS	Proj00026	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	3.29	0
Proj00026-3UG-UGAS	Proj00026-3UG-UGAS	Proj00026	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	3.29	0
Proj00027-3UG-UGAS	Proj00027-3UG-UGAS	Proj00027	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	1.31	0	0
Proj00027-3UG-UGAS	Proj00027-3UG-UGAS	Proj00027	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	1.31	0	0
Proj00027-3UG-UGAS	Proj00027-3UG-UGAS	Proj00027	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	1.31	0	0
Proj00028-3UG-UGAS	Proj00028-3UG-UGAS	Proj00028	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	2.65	0
Proj00028-3UG-UGAS	Proj00028-3UG-UGAS	Proj00028	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	2.65	0
Proj00028-3UG-UGAS	Proj00028-3UG-UGAS	Proj00028	Undergrounding	Associated Assets are reported as underground secondary and service miles installed, where applicable.	0	2.65	0

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rru_id	associated_asset_miles	discount_rate_scenario	associated_assets_present_value_capital_costs	associated_assets_total_mitigation_benefit	reporting_date	calculated_date
Proj00001-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00001-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00001-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00002-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00002-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00002-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00003-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00003-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00003-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00004-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00004-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00004-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00005-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00005-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00005-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00006-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00006-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00006-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00007-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00007-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00007-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00008-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00008-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00008-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00009-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00009-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00009-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00010-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00010-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00010-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00011-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00011-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00011-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00012-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00012-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00012-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00013-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00013-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00013-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00014-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00014-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00014-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026

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rru_id	associated_asset_miles	discount_rate_scenario	associated_assets_present_value_capital_costs	associated_assets_total_mitigation_benefit	reporting_date	calculated_date
Proj00015-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00015-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00015-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00016-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00016-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00016-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00017-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00017-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00017-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00018-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00018-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00018-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00019-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00019-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00019-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00020-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00020-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00020-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00021-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00021-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00021-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00022-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00022-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00022-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00023-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00023-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00023-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00024-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00024-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00024-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00025-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00025-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00025-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00026-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00026-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00026-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00027-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00027-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00027-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00028-3UG-UGAS	0	Societal Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00028-3UG-UGAS	0	Hybrid Discount Rate Scenario	0	0	9/30/2026	9/17/2026
Proj00028-3UG-UGAS	0	WACC Discount Rate Scenario	0	0	9/30/2026	9/17/2026

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wacc_discount_rate	societal_discount_rate	hybrid_discount_rate	vsl	financial	pvrr	ice_calculator_version	reporting_date	calculated_date
7.00%	2.00%	6.10%	16.22	0.000001	1.39	2	9/30/2026	7/15/2026

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SPD-37 Table 6: Interruption Cost Estimate Calculator Inputs

hftd_region	affected_customers_residential	affected_customers_non_residential	average_annual_usage_residential	average_annual_usage_non_residential	residential_bug	residential_work_from_home	non_residential_manufacturing
HFTD	4,973,630	641,920	5,156	74,612	17.70%	37%	12.40%
Non-HFTD	4,973,630	641,920	5,156	74,612	17.70%	37%	12.40%

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SPD-37 Table 6: Interruption Cost Estimate Calculator Inputs

hftd_region	non_residential_health_social	outage_summer	outage_weekend	non-residential_advanced_warning	saidi	saifi	electric reliability_valuation_residential	electric reliability_valuation_non_residential	reporting_date	calculated_date
HFTD	5.40%	28.60%	28.57%	0.00%	132	1	0.08	22.45	9/30/2026	6/2/2026
Non-HFTD	5.40%	28.60%	28.57%	0.00%	132	1	0.08	22.45	9/30/2026	6/2/2026

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SPD-37 Table 7: Annual Costs (Capital and O&M) and O&M Savings

rru_id	oeis_subproject_id	oeis_project_id	mitigation_type_nbb	costs_type	used_and_useful_date	year_1	annual_costs_in_year_1	annual_costs_in_year_2	annual_costs_in_year_3	annual_costs_in_year_4
Proj00001-3UG-ALT1		Proj00001	Overhead Hardening	CapEx		2028	2.88739171	0		
Proj00001-3UG-ALT1		Proj00001	Overhead Hardening	Incremental_OM_Costs		2028	0.008392938	0.008584297	0.008780019	0.008980203
Proj00001-3UG-ALT1		Proj00001	Overhead Hardening	Incremental_OM_Savings		2028	-0.034134328	-0.034912591	-0.035708598	-0.036522754
Proj00001-3UG-PAS		Proj00001	Undergrounding	CapEx	9/28/2028	2028	10.41960636	0.698225967		
Proj00001-3UG-PAS		Proj00001	Undergrounding	Incremental_OM_Costs	9/28/2028	2028	0.001263181	0.001291981	0.001321438	0.001351567
Proj00001-3UG-PAS		Proj00001	Undergrounding	Incremental_OM_Savings	9/28/2028	2028	-1.115986679	-1.141431176	-1.167455806	-1.194073799
Proj00001-3UG-UGAS	Proj00001-3UG-UGAS	Proj00001	No-Build Baseline	OM_Costs_NBB	9/28/2028	2028	3.489191887	1.21649819	1.244234349	1.272602892
Proj00001-3UG-UGAS	Proj00001-3UG-UGAS	Proj00001	Undergrounding	CapEx	9/28/2028	2028	10.41960636	0.698225967		
Proj00001-3UG-UGAS	Proj00001-3UG-UGAS	Proj00001	Undergrounding	Incremental_OM_Costs	9/28/2028	2028	0.001263181	0.001291981	0.001321438	0.001351567
Proj00001-3UG-UGAS	Proj00001-3UG-UGAS	Proj00001	Undergrounding	Incremental_OM_Savings	9/28/2028	2028	-1.115986679	-1.141431176	-1.167455806	-1.194073799
Proj00002-3UG-ALT1		Proj00002	Overhead Hardening	CapEx		2028	2.32401759	0		
Proj00002-3UG-ALT1		Proj00002	Overhead Hardening	Incremental_OM_Costs		2028	0.007072083	0.007233326	0.007398246	0.007566926
Proj00002-3UG-ALT1		Proj00002	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00002-3UG-PAS		Proj00002	Undergrounding	CapEx	11/6/2028	2028	7.339968637	0.492412803		
Proj00002-3UG-PAS		Proj00002	Undergrounding	Incremental_OM_Costs	11/6/2028	2028	0.001014738	0.001037874	0.001061538	0.001085741
Proj00002-3UG-PAS		Proj00002	Undergrounding	Incremental_OM_Savings	11/6/2028	2028	-0.269423569	-0.275566426	-0.281849341	-0.288275506
Proj00002-3UG-UGAS	Proj00002-3UG-UGAS	Proj00002	No-Build Baseline	OM_Costs_NBB	11/6/2028	2028	1.580799453	0.551141851	0.563707885	0.576560425
Proj00002-3UG-UGAS	Proj00002-3UG-UGAS	Proj00002	Undergrounding	CapEx	11/6/2028	2028	7.339968637	0.492412803		
Proj00002-3UG-UGAS	Proj00002-3UG-UGAS	Proj00002	Undergrounding	Incremental_OM_Costs	11/6/2028	2028	0.001014738	0.001037874	0.001061538	0.001085741
Proj00002-3UG-UGAS	Proj00002-3UG-UGAS	Proj00002	Undergrounding	Incremental_OM_Savings	11/6/2028	2028	-0.269423569	-0.275566426	-0.281849341	-0.288275506
Proj00003-3UG-ALT1		Proj00003	Overhead Hardening	CapEx		2028	7.55079645	0		
Proj00003-3UG-ALT1		Proj00003	Overhead Hardening	Incremental_OM_Costs		2028	0.022977413	0.023501298	0.024037128	0.024585174
Proj00003-3UG-ALT1		Proj00003	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00003-3UG-PAS		Proj00003	Undergrounding	CapEx	10/2/2028	2028	33.02985887	2.215857614		
Proj00003-3UG-PAS		Proj00003	Undergrounding	Incremental_OM_Costs	10/2/2028	2028	0.004008776	0.004100176	0.00419366	0.004289276
Proj00003-3UG-PAS		Proj00003	Undergrounding	Incremental_OM_Savings	10/2/2028	2028	-1.339578272	-1.370120656	-1.401359407	-1.433310402
Proj00003-3UG-UGAS	Proj00003-3UG-UGAS	Proj00003	No-Build Baseline	OM_Costs_NBB	10/2/2028	2028	4.515029942	1.574154111	1.610044825	1.646753847
Proj00003-3UG-UGAS	Proj00003-3UG-UGAS	Proj00003	Undergrounding	CapEx	10/2/2028	2028	33.02985887	2.215857614		
Proj00003-3UG-UGAS	Proj00003-3UG-UGAS	Proj00003	Undergrounding	Incremental_OM_Costs	10/2/2028	2028	0.004008776	0.004100176	0.00419366	0.004289276
Proj00003-3UG-UGAS	Proj00003-3UG-UGAS	Proj00003	Undergrounding	Incremental_OM_Savings	10/2/2028	2028	-1.339578272	-1.370120656	-1.401359407	-1.433310402
Proj00004-3UG-ALT1		Proj00004	Overhead Hardening	CapEx		2028	0.25824639	0		
Proj00004-3UG-ALT1		Proj00004	Overhead Hardening	Incremental_OM_Costs		2028	0.001183262	0.001210241	0.001237834	0.001266057
Proj00004-3UG-ALT1		Proj00004	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00004-3UG-PAS		Proj00004	Undergrounding	CapEx	10/9/2028	2028	1.109836476	0.074455044		
Proj00004-3UG-PAS		Proj00004	Undergrounding	Incremental_OM_Costs	10/9/2028	2028	0.000167032	0.00017084	0.000174735	0.000178719
Proj00004-3UG-PAS		Proj00004	Undergrounding	Incremental_OM_Savings	10/9/2028	2028	-0.048039455	-0.049134755	-0.050255027	-0.051400842
Proj00004-3UG-UGAS	Proj00004-3UG-UGAS	Proj00004	No-Build Baseline	OM_Costs_NBB	10/9/2028	2028	0.159304079	0.055540976	0.056807311	0.058102517
Proj00004-3UG-UGAS	Proj00004-3UG-UGAS	Proj00004	Undergrounding	CapEx	10/9/2028	2028	1.109836476	0.074455044		
Proj00004-3UG-UGAS	Proj00004-3UG-UGAS	Proj00004	Undergrounding	Incremental_OM_Costs	10/9/2028	2028	0.000167032	0.00017084	0.000174735	0.000178719
Proj00004-3UG-UGAS	Proj00004-3UG-UGAS	Proj00004	Undergrounding	Incremental_OM_Savings	10/9/2028	2028	-0.048039455	-0.049134755	-0.050255027	-0.051400842
Proj00005-3UG-ALT1		Proj00005	Overhead Hardening	CapEx		2028	5.87601945	0		
Proj00005-3UG-ALT1		Proj00005	Overhead Hardening	Incremental_OM_Costs		2028	0.015602618	0.015958358	0.016322208	0.016694354
Proj00005-3UG-ALT1		Proj00005	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00005-3UG-PAS		Proj00005	Undergrounding	CapEx	10/30/2028	2028	15.23712995	1.022205712		
Proj00005-3UG-PAS		Proj00005	Undergrounding	Incremental_OM_Costs	10/30/2028	2028	0.002293214	0.002345499	0.002398976	0.002453673
Proj00005-3UG-PAS		Proj00005	Undergrounding	Incremental_OM_Savings	10/30/2028	2028	-1.227385609	-1.255370001	-1.283992437	-1.313267464
Proj00005-3UG-UGAS	Proj00005-3UG-UGAS	Proj00005	No-Build Baseline	OM_Costs_NBB	10/30/2028	2028	3.777297628	1.31694555	1.346971909	1.377682868
Proj00005-3UG-UGAS	Proj00005-3UG-UGAS	Proj00005	Undergrounding	CapEx	10/30/2028	2028	15.23712995	1.022205712		
Proj00005-3UG-UGAS	Proj00005-3UG-UGAS	Proj00005	Undergrounding	Incremental_OM_Costs	10/30/2028	2028	0.002293214	0.002345499	0.002398976	0.002453673
Proj00005-3UG-UGAS	Proj00005-3UG-UGAS	Proj00005	Undergrounding	Incremental_OM_Savings	10/30/2028	2028	-1.227385609	-1.255370001	-1.283992437	-1.313267464
Proj00006-3UG-ALT1		Proj00006	Overhead Hardening	CapEx		2028	1.29027	0		
Proj00006-3UG-ALT1		Proj00006	Overhead Hardening	Incremental_OM_Costs		2028	0.003384691	0.003461862	0.003540792	0.003621522
Proj00006-3UG-ALT1		Proj00006	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00006-3UG-PAS		Proj00006	Overhead Hardening, Undergrounding	CapEx	8/2/2028	2028	2.562120367	0.111579633		
Proj00006-3UG-PAS		Proj00006	Overhead Hardening, Undergrounding	Incremental_OM_Costs	8/2/2028	2028	0.001687792	0.001726274	0.001765633	0.001805889
Proj00006-3UG-PAS		Proj00006	Overhead Hardening, Undergrounding	Incremental_OM_Savings	8/2/2028	2028	-0.073803215	-0.075485928	-0.077207007	-0.078967327
Proj00006-3UG-UGAS	Proj00006-3UG-UGAS	Proj00006	No-Build Baseline	OM_Costs_NBB	8/2/2028	2028	0.419077623	0.146110385	0.149441702	0.152848973
Proj00006-3UG-UGAS	Proj00006-3UG-UGAS	Proj00006	Undergrounding	CapEx	8/2/2028	2028	1.663220367	0.111579633		
Proj00006-3UG-UGAS	Proj00006-3UG-UGAS	Proj00006	Undergrounding	Incremental_OM_Costs	8/2/2028	2028	0.00020183	0.000206432	0.000211139	0.000215953
Proj00006-3UG-UGAS	Proj00006-3UG-UGAS	Proj00006	Undergrounding	Incremental_OM_Savings	8/2/2028	2028	-0.073803215	-0.075485928	-0.077207007	-0.078967327
Proj00007-3UG-ALT1		Proj00007	Overhead Hardening	CapEx		2028	7.40376	0		
Proj00007-3UG-ALT1		Proj00007	Overhead Hardening	Incremental_OM_Costs		2028	0.022537137	0.023050984	0.023576546	0.024114091
Proj00007-3UG-ALT1		Proj00007	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00007-3UG-PAS		Proj00007	Overhead Hardening, Undergrounding	CapEx	11/8/2028	2028	9.422472085	0.205777915		
Proj00007-3UG-PAS		Proj00007	Overhead Hardening, Undergrounding	Incremental_OM_Costs	11/8/2028	2028	0.019717407	0.020166964	0.020626771	0.021097061
Proj00007-3UG-PAS		Proj00007	Overhead Hardening, Undergrounding	Incremental_OM_Savings	11/8/2028	2028	-0.062551028	-0.063977192	-0.065435872	-0.066927809
Proj00007-3UG-UGAS	Proj00007-3UG-UGAS	Proj00007	No-Build Baseline	OM_Costs_NBB	11/8/2028	2028	1.696913708	0.591624801	0.605113846	0.618910442
Proj00007-3UG-UGAS	Proj00007-3UG-UGAS	Proj00007	Undergrounding	CapEx	11/8/2028	2028	3.067352085	0.205777915		
Proj00007-3UG-UGAS	Proj00007-3UG-UGAS	Proj00007	Undergrounding	Incremental_OM_Costs	11/8/2028	2028	0.000372343	0.000380833	0.000389515	0.000398396
Proj00007-3UG-UGAS	Proj00007-3UG-UGAS	Proj00007	Undergrounding	Incremental_OM_Savings	11/8/2028	2028	-0.062551028	-0.063977192	-0.065435872	-0.066927809

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rru_id	oeis_subproject_id	oeis_project_id	mitigation_type_nbb	costs_type	used_and_useful_date	year_1	annual_costs_in_year_1	annual_costs_in_year_2	annual_costs_in_year_3	annual_costs_in_year_4
Proj00008-3UG-ALT1		Proj00008	Overhead Hardening	CapEx		2028	16.97078065	0		
Proj00008-3UG-ALT1		Proj00008	Overhead Hardening	Incremental_OM_Costs		2028	0.051375848	0.052547218	0.053745294	0.054970687
Proj00008-3UG-ALT1		Proj00008	Overhead Hardening	Incremental_OM_Savings		2028	-0.021385741	-0.021873336	-0.022372048	-0.022882131
Proj00008-3UG-PAS		Proj00008	Overhead Hardening, Undergrounding	CapEx	12/11/2028	2028	51.78877438	2.86724666		
Proj00008-3UG-PAS		Proj00008	Overhead Hardening, Undergrounding	Incremental_OM_Costs	12/11/2028	2028	0.032457426	0.033197455	0.033954357	0.034728516
Proj00008-3UG-PAS		Proj00008	Overhead Hardening, Undergrounding	Incremental_OM_Savings	12/11/2028	2028	-0.293927296	-0.300628838	-0.307483176	-0.314493792
Proj00008-3UG-UGAS	Proj00008-3UG-UGAS	Proj00008	No-Build Baseline	OM_Costs_NBB	12/11/2028	2028	2.786477698	0.971498613	0.993648781	1.016303973
Proj00008-3UG-UGAS	Proj00008-3UG-UGAS	Proj00008	Undergrounding	CapEx	12/11/2028	2028	42.73954785	2.86724666		
Proj00008-3UG-UGAS	Proj00008-3UG-UGAS	Proj00008	Undergrounding	Incremental_OM_Costs	12/11/2028	2028	0.005187225	0.005305493	0.005426459	0.005550182
Proj00008-3UG-UGAS	Proj00008-3UG-UGAS	Proj00008	Undergrounding	Incremental_OM_Savings	12/11/2028	2028	-0.293927296	-0.300628838	-0.307483176	-0.314493792
Proj00009-3UG-ALT1		Proj00009	Overhead Hardening	CapEx		2028	6.33320925	0		
Proj00009-3UG-ALT1		Proj00009	Overhead Hardening	Incremental_OM_Costs		2028	0.019234975	0.019673533	0.020122089	0.020580873
Proj00009-3UG-ALT1		Proj00009	Overhead Hardening	Incremental_OM_Savings		2028	-0.011190952	-0.011446106	-0.011707077	-0.011973999
Proj00009-3UG-PAS		Proj00009	Overhead Hardening, Undergrounding	CapEx	11/16/2028	2028	25.27837399	1.671510648		
Proj00009-3UG-PAS		Proj00009	Overhead Hardening, Undergrounding	Incremental_OM_Costs	11/16/2028	2028	0.004289801	0.004387608	0.004487646	0.004589964
Proj00009-3UG-PAS		Proj00009	Overhead Hardening, Undergrounding	Incremental_OM_Savings	11/16/2028	2028	-1.07179701	-1.096233982	-1.121228117	-1.146792118
Proj00009-3UG-UGAS	Proj00009-3UG-UGAS	Proj00009	No-Build Baseline	OM_Costs_NBB	11/16/2028	2028	3.858315291	1.34519216	1.375862541	1.407232207
Proj00009-3UG-UGAS	Proj00009-3UG-UGAS	Proj00009	Undergrounding	CapEx	11/16/2028	2028	24.91575291	1.671510648		
Proj00009-3UG-UGAS	Proj00009-3UG-UGAS	Proj00009	Undergrounding	Incremental_OM_Costs	11/16/2028	2028	0.00302398	0.003092927	0.003163445	0.003235572
Proj00009-3UG-UGAS	Proj00009-3UG-UGAS	Proj00009	Undergrounding	Incremental_OM_Savings	11/16/2028	2028	-1.07179701	-1.096233982	-1.121228117	-1.146792118
Proj00010-3UG-ALT1		Proj00010	Overhead Hardening	CapEx		2028	7.51100834	0		
Proj00010-3UG-ALT1		Proj00010	Overhead Hardening	Incremental_OM_Costs		2028	0.021518953	0.022009585	0.022511404	0.023024664
Proj00010-3UG-ALT1		Proj00010	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00010-3UG-PAS		Proj00010	Overhead Hardening, Undergrounding	CapEx	12/22/2028	2028	23.49895512	1.506090722		
Proj00010-3UG-PAS		Proj00010	Overhead Hardening, Undergrounding	Incremental_OM_Costs	12/22/2028	2028	0.005916783	0.006051686	0.006189664	0.006330789
Proj00010-3UG-PAS		Proj00010	Overhead Hardening, Undergrounding	Incremental_OM_Savings	12/22/2028	2028	-0.385977712	-0.394778003	-0.403778942	-0.412985102
Proj00010-3UG-UGAS	Proj00010-3UG-UGAS	Proj00010	No-Build Baseline	OM_Costs_NBB	12/22/2028	2028	1.770174251	0.617166909	0.631238315	0.645630549
Proj00010-3UG-UGAS	Proj00010-3UG-UGAS	Proj00010	Undergrounding	CapEx	12/22/2028	2028	22.4499822	1.506090722		
Proj00010-3UG-UGAS	Proj00010-3UG-UGAS	Proj00010	Undergrounding	Incremental_OM_Costs	12/22/2028	2028	0.002724713	0.002786837	0.002850377	0.002915365
Proj00010-3UG-UGAS	Proj00010-3UG-UGAS	Proj00010	Undergrounding	Incremental_OM_Savings	12/22/2028	2028	-0.385977712	-0.394778003	-0.403778942	-0.412985102
Proj00011-3UG-ALT1		Proj00011	Overhead Hardening	CapEx		2028	5.04569	0		
Proj00011-3UG-ALT1		Proj00011	Overhead Hardening	Incremental_OM_Costs		2028	0.013236087	0.01353787	0.013846533	0.014162234
Proj00011-3UG-ALT1		Proj00011	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00011-3UG-PAS		Proj00011	Undergrounding	CapEx	11/22/2028	2028	17.17143831	1.15197169		
Proj00011-3UG-PAS		Proj00011	Undergrounding	Incremental_OM_Costs	11/22/2028	2028	0.002084424	0.002131949	0.002180557	0.002230274
Proj00011-3UG-PAS		Proj00011	Undergrounding	Incremental_OM_Savings	11/22/2028	2028	-0.905170076	-0.925807953	-0.946916375	-0.968506068
Proj00011-3UG-UGAS	Proj00011-3UG-UGAS	Proj00011	No-Build Baseline	OM_Costs_NBB	11/22/2028	2028	5.45285675	1.901125127	1.94447078	1.988804713
Proj00011-3UG-UGAS	Proj00011-3UG-UGAS	Proj00011	Undergrounding	CapEx	11/22/2028	2028	17.17143831	1.15197169		
Proj00011-3UG-UGAS	Proj00011-3UG-UGAS	Proj00011	Undergrounding	Incremental_OM_Costs	11/22/2028	2028	0.002084424	0.002131949	0.002180557	0.002230274
Proj00011-3UG-UGAS	Proj00011-3UG-UGAS	Proj00011	Undergrounding	Incremental_OM_Savings	11/22/2028	2028	-0.905170076	-0.925807953	-0.946916375	-0.968506068
Proj00012-3UG-ALT1		Proj00012	Overhead Hardening	CapEx		2028	5.08765	0		
Proj00012-3UG-ALT1		Proj00012	Overhead Hardening	Incremental_OM_Costs		2028	0.013346162	0.013650455	0.013961685	0.014280012
Proj00012-3UG-ALT1		Proj00012	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00012-3UG-PAS		Proj00012	Overhead Hardening, Undergrounding	CapEx	8/7/2028	2028	17.010912	1.046197995		
Proj00012-3UG-PAS		Proj00012	Overhead Hardening, Undergrounding	Incremental_OM_Costs	8/7/2028	2028	0.005607944	0.005735806	0.005866582	0.00600034
Proj00012-3UG-PAS		Proj00012	Overhead Hardening, Undergrounding	Incremental_OM_Savings	8/7/2028	2028	-0.464366242	-0.474953792	-0.485782738	-0.496858585
Proj00012-3UG-UGAS	Proj00012-3UG-UGAS	Proj00012	No-Build Baseline	OM_Costs_NBB	8/7/2028	2028	2.057167366	0.717226355	0.733579116	0.75030472
Proj00012-3UG-UGAS	Proj00012-3UG-UGAS	Proj00012	Undergrounding	CapEx	8/7/2028	2028	15.594762	1.046197995		
Proj00012-3UG-UGAS	Proj00012-3UG-UGAS	Proj00012	Undergrounding	Incremental_OM_Costs	8/7/2028	2028	0.001893033	0.001936194	0.00198034	0.002025491
Proj00012-3UG-UGAS	Proj00012-3UG-UGAS	Proj00012	Undergrounding	Incremental_OM_Savings	8/7/2028	2028	-0.464366242	-0.474953792	-0.485782738	-0.496858585
Proj00013-3UG-ALT1		Proj00013	Overhead Hardening	CapEx		2028	9.46083684	0		
Proj00013-3UG-ALT1		Proj00013	Overhead Hardening	Incremental_OM_Costs		2028	0.021243782	0.02172814	0.022223542	0.022730239
Proj00013-3UG-ALT1		Proj00013	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00013-3UG-PAS		Proj00013	Overhead Hardening, Undergrounding	CapEx	8/8/2028	2028	29.31447903	1.965901855		
Proj00013-3UG-PAS		Proj00013	Overhead Hardening, Undergrounding	Incremental_OM_Costs	8/8/2028	2028	0.003691789	0.003775962	0.003862054	0.003950108
Proj00013-3UG-PAS		Proj00013	Overhead Hardening, Undergrounding	Incremental_OM_Savings	8/8/2028	2028	-0.795760865	-0.813904213	-0.832461229	-0.851441345
Proj00013-3UG-UGAS	Proj00013-3UG-UGAS	Proj00013	No-Build Baseline	OM_Costs_NBB	8/8/2028	2028	2.772344904	0.966571249	0.988609073	1.01114936
Proj00013-3UG-UGAS	Proj00013-3UG-UGAS	Proj00013	Undergrounding	CapEx	8/8/2028	2028	29.30398614	1.965901855		
Proj00013-3UG-UGAS	Proj00013-3UG-UGAS	Proj00013	Undergrounding	Incremental_OM_Costs	8/8/2028	2028	0.003664271	0.003747816	0.003833267	0.003920665
Proj00013-3UG-UGAS	Proj00013-3UG-UGAS	Proj00013	Undergrounding	Incremental_OM_Savings	8/8/2028	2028	-0.795760865	-0.813904213	-0.832461229	-0.851441345
Proj00014-3UG-ALT1		Proj00014	Overhead Hardening	CapEx		2028	1.13940162	0		
Proj00014-3UG-ALT1		Proj00014	Overhead Hardening	Incremental_OM_Costs		2028	0.003467258	0.003546311	0.003627167	0.003709867
Proj00014-3UG-ALT1		Proj00014	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00014-3UG-PAS		Proj00014	Undergrounding	CapEx	7/10/2028	2028	3.612640813	0.242359427		
Proj00014-3UG-PAS		Proj00014	Undergrounding	Incremental_OM_Costs	7/10/2028	2028	0.000438461	0.000448458	0.000458683	0.000469141
Proj00014-3UG-PAS		Proj00014	Undergrounding	Incremental_OM_Savings	7/10/2028	2028	-0.19241766	-0.196804783	-0.201291932	-0.205881388
Proj00014-3UG-UGAS	Proj00014-3UG-UGAS	Proj00014	No-Build Baseline	OM_Costs_NBB	7/10/2028	2028	0.653971315	0.228005494	0.23320402	0.238521071
Proj00014-3UG-UGAS	Proj00014-3UG-UGAS	Proj00014	Undergrounding	CapEx	7/10/2028	2028	3.612640813	0.242359427		
Proj00014-3UG-UGAS	Proj00014-3UG-UGAS	Proj00014	Undergrounding	Incremental_OM_Costs	7/10/2028	2028	0.000438461	0.000448458	0.000458683	0.000469141
Proj00014-3UG-UGAS	Proj00014-3UG-UGAS	Proj00014	Undergrounding	Incremental_OM_Savings	7/10/2028	2028	-0.19241766	-0.196804783	-0.201291932	-0.205881388
Proj00015-3UG-ALT1		Proj00015	Overhead Hardening	CapEx		2028	24.04067942	0		
Proj00015-3UG-ALT1		Proj00015	Overhead Hardening	Incremental_OM_Costs		2028	0.062795753	0.064227496	0.065691883	0.067189658
Proj00015-3UG-ALT1		Proj00015	Overhead Hardening	Incremental_OM_Savings		2028	-0.031874056	-0.032600785	-0.033344082	-0.034104328
Proj00015-3UG-PAS		Proj00015	Overhead Hardening, Undergrounding	CapEx	12/27/2028	2028	72.04108057	4.561050529		
Proj00015-3UG-PAS		Proj00015	Overhead Hardening, Undergrounding	Incremental_OM_Costs	12/27/2028	2028	0.018598251	0.019022292	0.019456	0.019899597
Proj00015-3UG-PAS		Proj00015	Overhead Hardening, Undergrounding	Incremental_OM_Savings	12/27/2028	2028	-1.076341603	-1.100882191	-1.125982305	-1.151654702
Proj00015-3UG-UGAS	Proj00015-3UG-UGAS	Proj00015	No-Build Baseline	OM_Costs_NBB	12/27/2028	2028	4.632013697	1.61494021	1.651760847	1.689420994
Proj00015-3UG-UGAS	Proj00015-3UG-UGAS	Proj00015	Undergrounding	CapEx	12/27/2028	2028	67.98760637	4.561050529		
Proj00015-3UG-UGAS	Proj00015-3UG-UGAS	Proj00015	Undergrounding	Incremental_OM_Costs	12/27/2028	2028	0.008251537	0.008439672	0.008632096	0.008828908
Proj00015-3UG-UGAS	Proj00015-3UG-UGAS	Proj00015	Undergrounding	Incremental_OM_Savings	12/27/2028	2028	-1.076341603	-1.100882191	-1.125982305	-1.151654702
Proj00016-3UG-ALT1		Proj00016	Overhead Hardening	CapEx		2028	23.2401759	0		

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rru_id	oeis_subproject_id	oeis_project_id	mitigation_type_nbb	costs_type	used_and_useful_date	year_1	annual_costs_in_year_1	annual_costs_in_year_2	annual_costs_in_year_3	annual_costs_in_year_4
Proj00016-3UG-ALT1		Proj00016	Overhead Hardening	Incremental_OM_Costs		2028	0.070720887	0.072333324	0.073982523	0.075669325
Proj00016-3UG-ALT1		Proj00016	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00016-3UG-PAS		Proj00016	Overhead Hardening, Undergrounding	CapEx	12/26/2028	2028	27.30712006	0.357768677		
Proj00016-3UG-PAS		Proj00016	Overhead Hardening, Undergrounding	Incremental_OM_Costs	12/26/2028	2028	0.067605659	0.069147068	0.070723621	0.07233612
Proj00016-3UG-PAS		Proj00016	Overhead Hardening, Undergrounding	Incremental_OM_Savings	12/26/2028	2028	-0.071226243	-0.072850201	-0.074511185	-0.076210041
Proj00016-3UG-UGAS	Proj00016-3UG-UGAS	Proj00016	No-Build Baseline	OM_Costs_NBB	12/26/2028	2028	4.84897092	1.690581814	1.729127079	1.768551177
Proj00016-3UG-UGAS	Proj00016-3UG-UGAS	Proj00016	Undergrounding	CapEx	12/26/2028	2028	5.332945963	0.357768677		
Proj00016-3UG-UGAS	Proj00016-3UG-UGAS	Proj00016	Undergrounding	Incremental_OM_Costs	12/26/2028	2028	0.000737271	0.000754081	0.000771274	0.000788859
Proj00016-3UG-UGAS	Proj00016-3UG-UGAS	Proj00016	Undergrounding	Incremental_OM_Savings	12/26/2028	2028	-0.071226243	-0.072850201	-0.074511185	-0.076210041
Proj00017-3UG-ALT1		Proj00017	Overhead Hardening	CapEx		2028	7.63135	0		
Proj00017-3UG-ALT1		Proj00017	Overhead Hardening	Incremental_OM_Costs		2028	0.019950438	0.020405308	0.020870549	0.021346397
Proj00017-3UG-ALT1		Proj00017	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00017-3UG-PAS		Proj00017	Overhead Hardening, Undergrounding	CapEx	11/2/2028	2028	15.25307888	0.719261122		
Proj00017-3UG-PAS		Proj00017	Overhead Hardening, Undergrounding	Incremental_OM_Costs	11/2/2028	2028	0.013189169	0.013489882	0.013797451	0.014112033
Proj00017-3UG-PAS		Proj00017	Overhead Hardening, Undergrounding	Incremental_OM_Savings	11/2/2028	2028	-0.337362116	-0.345053972	-0.352921203	-0.360967806
Proj00017-3UG-UGAS	Proj00017-3UG-UGAS	Proj00017	No-Build Baseline	OM_Costs_NBB	11/2/2028	2028	2.962271077	1.032788543	1.056336122	1.080420585
Proj00017-3UG-UGAS	Proj00017-3UG-UGAS	Proj00017	Undergrounding	CapEx	11/2/2028	2028	10.72139888	0.719261122		
Proj00017-3UG-UGAS	Proj00017-3UG-UGAS	Proj00017	Undergrounding	Incremental_OM_Costs	11/2/2028	2028	0.00130146	0.001331133	0.001361483	0.001392525
Proj00017-3UG-UGAS	Proj00017-3UG-UGAS	Proj00017	Undergrounding	Incremental_OM_Savings	11/2/2028	2028	-0.337362116	-0.345053972	-0.352921203	-0.360967806
Proj00018-3UG-ALT1		Proj00018	Overhead Hardening	CapEx		2028	2.128951438	0		
Proj00018-3UG-ALT1		Proj00018	Overhead Hardening	Incremental_OM_Costs		2028	0.006466692	0.006614132	0.006764935	0.006919175
Proj00018-3UG-ALT1		Proj00018	Overhead Hardening	Incremental_OM_Savings		2028	-0.002992001	-0.003060219	-0.003129992	-0.003201356
Proj00018-3UG-PAS		Proj00018	Undergrounding	CapEx	12/13/2028	2028	7.078964767	0.473177928		
Proj00018-3UG-PAS		Proj00018	Undergrounding	Incremental_OM_Costs	12/13/2028	2028	0.00085604	0.000875558	0.00089552	0.000915938
Proj00018-3UG-PAS		Proj00018	Undergrounding	Incremental_OM_Savings	12/13/2028	2028	-0.278821248	-0.285178373	-0.29168044	-0.298330754
Proj00018-3UG-UGAS	Proj00018-3UG-UGAS	Proj00018	No-Build Baseline	OM_Costs_NBB	12/13/2028	2028	1.103493369	0.384730256	0.393502105	0.402473953
Proj00018-3UG-UGAS	Proj00018-3UG-UGAS	Proj00018	Undergrounding	CapEx	12/13/2028	2028	7.078964767	0.473177928		
Proj00018-3UG-UGAS	Proj00018-3UG-UGAS	Proj00018	Undergrounding	Incremental_OM_Costs	12/13/2028	2028	0.00085604	0.000875558	0.00089552	0.000915938
Proj00018-3UG-UGAS	Proj00018-3UG-UGAS	Proj00018	Undergrounding	Incremental_OM_Savings	12/13/2028	2028	-0.278821248	-0.285178373	-0.29168044	-0.298330754
Proj00019-3UG-ALT1		Proj00019	Overhead Hardening	CapEx		2028	9.09104369	0		
Proj00019-3UG-ALT1		Proj00019	Overhead Hardening	Incremental_OM_Costs		2028	0.023472734	0.024007912	0.024555292	0.025115153
Proj00019-3UG-ALT1		Proj00019	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00019-3UG-PAS		Proj00019	Undergrounding	CapEx	11/27/2028	2028	39.32464708	2.638152921		
Proj00019-3UG-PAS		Proj00019	Undergrounding	Incremental_OM_Costs	11/27/2028	2028	0.003904381	0.003993401	0.00408445	0.004177576
Proj00019-3UG-PAS		Proj00019	Undergrounding	Incremental_OM_Savings	11/27/2028	2028	-1.094884654	-1.119848024	-1.145380559	-1.171495236
Proj00019-3UG-UGAS	Proj00019-3UG-UGAS	Proj00019	No-Build Baseline	OM_Costs_NBB	11/27/2028	2028	3.816741287	1.330697485	1.361037387	1.39206904
Proj00019-3UG-UGAS	Proj00019-3UG-UGAS	Proj00019	Undergrounding	CapEx	11/27/2028	2028	39.32464708	2.638152921		
Proj00019-3UG-UGAS	Proj00019-3UG-UGAS	Proj00019	Undergrounding	Incremental_OM_Costs	11/27/2028	2028	0.003904381	0.003993401	0.00408445	0.004177576
Proj00019-3UG-UGAS	Proj00019-3UG-UGAS	Proj00019	Undergrounding	Incremental_OM_Savings	11/27/2028	2028	-1.094884654	-1.119848024	-1.145380559	-1.171495236
Proj00020-3UG-ALT1		Proj00020	Overhead Hardening	CapEx		2028	5.096	0		
Proj00020-3UG-ALT1		Proj00020	Overhead Hardening	Incremental_OM_Costs		2028	0.01348376	0.01379119	0.014105629	0.014427237
Proj00020-3UG-ALT1		Proj00020	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00020-3UG-PAS		Proj00020	Undergrounding	CapEx	7/3/2028	2028	15.73809621	1.055813786		
Proj00020-3UG-PAS		Proj00020	Undergrounding	Incremental_OM_Costs	7/3/2028	2028	0.001910434	0.001953992	0.001998543	0.002044109
Proj00020-3UG-PAS		Proj00020	Undergrounding	Incremental_OM_Savings	7/3/2028	2028	-0.945279517	-0.96683189	-0.988875657	-1.011422022
Proj00020-3UG-UGAS	Proj00020-3UG-UGAS	Proj00020	No-Build Baseline	OM_Costs_NBB	7/3/2028	2028	3.049242916	1.063111061	1.087349993	1.112141573
Proj00020-3UG-UGAS	Proj00020-3UG-UGAS	Proj00020	Undergrounding	CapEx	7/3/2028	2028	15.73809621	1.055813786		
Proj00020-3UG-UGAS	Proj00020-3UG-UGAS	Proj00020	Undergrounding	Incremental_OM_Costs	7/3/2028	2028	0.001910434	0.001953992	0.001998543	0.002044109
Proj00020-3UG-UGAS	Proj00020-3UG-UGAS	Proj00020	Undergrounding	Incremental_OM_Savings	7/3/2028	2028	-0.945279517	-0.96683189	-0.988875657	-1.011422022
Proj00021-3UG-ALT1		Proj00021	Overhead Hardening	CapEx		2028	18.34810487	0		
Proj00021-3UG-ALT1		Proj00021	Overhead Hardening	Incremental_OM_Costs		2028	0.055008194	0.05626238	0.057545163	0.058857192
Proj00021-3UG-ALT1		Proj00021	Overhead Hardening	Incremental_OM_Savings		2028	-0.01210104	-0.012376944	-0.012659138	-0.012947766
Proj00021-3UG-PAS		Proj00021	Undergrounding	CapEx	3/13/2029	2028	14.10054728	40.06017631	3.62968341	
Proj00021-3UG-PAS		Proj00021	Undergrounding	Incremental_OM_Costs	3/13/2029	2028	0	0.008328482	0.008518371	0.00871259
Proj00021-3UG-PAS		Proj00021	Undergrounding	Incremental_OM_Savings	3/13/2029	2028	0	-1.421297583	-1.453703168	-1.4868476
Proj00021-3UG-UGAS	Proj00021-3UG-UGAS	Proj00021	No-Build Baseline	OM_Costs_NBB	3/13/2029	2028	3.213565832	1.661941355	1.699833618	1.738589825
Proj00021-3UG-UGAS	Proj00021-3UG-UGAS	Proj00021	Undergrounding	CapEx	3/13/2029	2028	14.10054728	40.06017631	3.62968341	
Proj00021-3UG-UGAS	Proj00021-3UG-UGAS	Proj00021	Undergrounding	Incremental_OM_Costs	3/13/2029	2028	0	0.008328482	0.008518371	0.00871259
Proj00021-3UG-UGAS	Proj00021-3UG-UGAS	Proj00021	Undergrounding	Incremental_OM_Savings	3/13/2029	2028	0	-1.421297583	-1.453703168	-1.4868476
Proj00022-3UG-ALT1		Proj00022	Overhead Hardening	CapEx		2028	1.88901102	0		
Proj00022-3UG-ALT1		Proj00022	Overhead Hardening	Incremental_OM_Costs		2028	0.006631803	0.006783009	0.006937661	0.00709584
Proj00022-3UG-ALT1		Proj00022	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00022-3UG-PAS		Proj00022	Overhead Hardening, Undergrounding	CapEx	6/1/2028	2028	2.335749607	0.044693613		
Proj00022-3UG-PAS		Proj00022	Overhead Hardening, Undergrounding	Incremental_OM_Costs	6/1/2028	2028	0.005958739	0.006094598	0.006233555	0.00637568
Proj00022-3UG-PAS		Proj00022	Overhead Hardening, Undergrounding	Incremental_OM_Savings	6/1/2028	2028	-0.014098027	-0.014419462	-0.014748226	-0.015084485
Proj00022-3UG-UGAS	Proj00022-3UG-UGAS	Proj00022	No-Build Baseline	OM_Costs_NBB	6/1/2028	2028	0.451452154	0.157397686	0.160986353	0.164656842
Proj00022-3UG-UGAS	Proj00022-3UG-UGAS	Proj00022	Undergrounding	CapEx	6/1/2028	2028	0.666208747	0.044693613		
Proj00022-3UG-UGAS	Proj00022-3UG-UGAS	Proj00022	Undergrounding	Incremental_OM_Costs	6/1/2028	2028	9.74E-05	9.97E-05	0.000101929	0.000104253
Proj00022-3UG-UGAS	Proj00022-3UG-UGAS	Proj00022	Undergrounding	Incremental_OM_Savings	6/1/2028	2028	-0.014098027	-0.014419462	-0.014748226	-0.015084485
Proj00023-3UG-ALT1		Proj00023	Overhead Hardening	CapEx		2028	25.92079	0		
Proj00023-3UG-ALT1		Proj00023	Overhead Hardening	Incremental_OM_Costs		2028	0.067996629	0.069546952	0.071132623	0.072754447
Proj00023-3UG-ALT1		Proj00023	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00023-3UG-PAS		Proj00023	Overhead Hardening, Undergrounding	CapEx	12/26/2028	2028	95.89945201	6.423347985		
Proj00023-3UG-PAS		Proj00023	Overhead Hardening, Undergrounding	Incremental_OM_Costs	12/26/2028	2028	0.012173024	0.012450569	0.012734442	0.013024787
Proj00023-3UG-PAS		Proj00023	Overhead Hardening, Undergrounding	Incremental_OM_Savings	12/26/2028	2028	-3.060005643	-3.129773772	-3.201132614	-3.274118438
Proj00023-3UG-UGAS	Proj00023-3UG-UGAS	Proj00023	No-Build Baseline	OM_Costs_NBB	12/26/2028	2028	9.817150565	3.422725457	3.500763598	3.580581008
Proj00023-3UG-UGAS	Proj00023-3UG-UGAS	Proj00023	Undergrounding	CapEx	12/26/2028	2028	95.74725201	6.423347985		
Proj00023-3UG-UGAS	Proj00023-3UG-UGAS	Proj00023	Undergrounding	Incremental_OM_Costs	12/26/2028	2028	0.011622667	0.011887664	0.012158702	0.012435921
Proj00023-3UG-UGAS	Proj00023-3UG-UGAS	Proj00023	Undergrounding	Incremental_OM_Savings	12/26/2028	2028	-3.060005643	-3.129773772	-3.201132614	-3.274118438
Proj00024-3UG-ALT1		Proj00024	Overhead Hardening	CapEx		2028	1.0399935	0		
Proj00024-3UG-ALT1		Proj00024	Overhead Hardening	Incremental_OM_Costs		2028	0.003137037	0.003208562	0.003281717	0.00335654

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rru_id	oeis_subproject_id	oeis_project_id	mitigation_type_nbb	costs_type	used_and_useful_date	year_1	annual_costs_in_year_1	annual_costs_in_year_2	annual_costs_in_year_3	annual_costs_in_year_4
Proj00024-3UG-ALT1		Proj00024	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00024-3UG-PAS		Proj00024	Undergrounding	CapEx	12/11/2028	2028	2.938979887	0.197165873		
Proj00024-3UG-PAS		Proj00024	Undergrounding	Incremental_OM_Costs	12/11/2028	2028	0.000428021	0.000437779	0.000447761	0.00045797
Proj00024-3UG-PAS		Proj00024	Undergrounding	Incremental_OM_Savings	12/11/2028	2028	-0.218223379	-0.223198872	-0.228287806	-0.233492768
Proj00024-3UG-UGAS	Proj00024-3UG-UGAS	Proj00024	No-Build Baseline	OM_Costs_NBB	12/11/2028	2028	0.717857926	0.250279405	0.255985775	0.261822251
Proj00024-3UG-UGAS	Proj00024-3UG-UGAS	Proj00024	Undergrounding	CapEx	12/11/2028	2028	2.938979887	0.197165873		
Proj00024-3UG-UGAS	Proj00024-3UG-UGAS	Proj00024	Undergrounding	Incremental_OM_Costs	12/11/2028	2028	0.000428021	0.000437779	0.000447761	0.00045797
Proj00024-3UG-UGAS	Proj00024-3UG-UGAS	Proj00024	Undergrounding	Incremental_OM_Savings	12/11/2028	2028	-0.218223379	-0.223198872	-0.228287806	-0.233492768
Proj00025-3UG-ALT1		Proj00025	Overhead Hardening	CapEx		2028	4.22463064	0		
Proj00025-3UG-ALT1		Proj00025	Overhead Hardening	Incremental_OM_Costs		2028	0.007815079	0.007993263	0.008175509	0.008361911
Proj00025-3UG-ALT1		Proj00025	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00025-3UG-PAS		Proj00025	Undergrounding	CapEx	8/24/2028	2028	12.54813424	0.841810403		
Proj00025-3UG-PAS		Proj00025	Undergrounding	Incremental_OM_Costs	8/24/2028	2028	0.001245784	0.001274188	0.001303239	0.001332953
Proj00025-3UG-PAS		Proj00025	Undergrounding	Incremental_OM_Savings	8/24/2028	2028	-0.465820254	-0.476440956	-0.487303809	-0.498414336
Proj00025-3UG-UGAS	Proj00025-3UG-UGAS	Proj00025	No-Build Baseline	OM_Costs_NBB	8/24/2028	2028	1.56805223	0.546697563	0.559162267	0.571911167
Proj00025-3UG-UGAS	Proj00025-3UG-UGAS	Proj00025	Undergrounding	CapEx	8/24/2028	2028	12.54813424	0.841810403		
Proj00025-3UG-UGAS	Proj00025-3UG-UGAS	Proj00025	Undergrounding	Incremental_OM_Costs	8/24/2028	2028	0.001245784	0.001274188	0.001303239	0.001332953
Proj00025-3UG-UGAS	Proj00025-3UG-UGAS	Proj00025	Undergrounding	Incremental_OM_Savings	8/24/2028	2028	-0.465820254	-0.476440956	-0.487303809	-0.498414336
Proj00026-3UG-ALT1		Proj00026	Overhead Hardening	CapEx		2028	3.55611	0		
Proj00026-3UG-ALT1		Proj00026	Overhead Hardening	Incremental_OM_Costs		2028	0.009328548	0.009541239	0.009758779	0.009981279
Proj00026-3UG-ALT1		Proj00026	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00026-3UG-PAS		Proj00026	Undergrounding	CapEx	7/3/2028	2028	9.468790992	0.632719008		
Proj00026-3UG-PAS		Proj00026	Undergrounding	Incremental_OM_Costs	7/3/2028	2028	0.001144867	0.00117097	0.001197668	0.001224975
Proj00026-3UG-PAS		Proj00026	Undergrounding	Incremental_OM_Savings	7/3/2028	2028	-0.652841282	-0.667726063	-0.682950217	-0.698521482
Proj00026-3UG-UGAS	Proj00026-3UG-UGAS	Proj00026	No-Build Baseline	OM_Costs_NBB	7/3/2028	2028	2.101807223	0.732789931	0.749497542	0.766586086
Proj00026-3UG-UGAS	Proj00026-3UG-UGAS	Proj00026	Undergrounding	CapEx	7/3/2028	2028	9.468790992	0.632719008		
Proj00026-3UG-UGAS	Proj00026-3UG-UGAS	Proj00026	Undergrounding	Incremental_OM_Costs	7/3/2028	2028	0.001144867	0.00117097	0.001197668	0.001224975
Proj00026-3UG-UGAS	Proj00026-3UG-UGAS	Proj00026	Undergrounding	Incremental_OM_Savings	7/3/2028	2028	-0.652841282	-0.667726063	-0.682950217	-0.698521482
Proj00027-3UG-ALT1		Proj00027	Overhead Hardening	CapEx		2028	0.75920988	0		
Proj00027-3UG-ALT1		Proj00027	Overhead Hardening	Incremental_OM_Costs		2028	0.003632351	0.003715168	0.003799874	0.003886511
Proj00027-3UG-ALT1		Proj00027	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00027-3UG-PAS		Proj00027	Undergrounding	CapEx	9/1/2028	2028	3.028928715	0.203200225		
Proj00027-3UG-PAS		Proj00027	Undergrounding	Incremental_OM_Costs	9/1/2028	2028	0.000455858	0.000466252	0.000476882	0.000487755
Proj00027-3UG-PAS		Proj00027	Undergrounding	Incremental_OM_Savings	9/1/2028	2028	-0.213161893	-0.218021984	-0.222992885	-0.228077123
Proj00027-3UG-UGAS	Proj00027-3UG-UGAS	Proj00027	No-Build Baseline	OM_Costs_NBB	9/1/2028	2028	0.68193153	0.237753755	0.24317454	0.24871892
Proj00027-3UG-UGAS	Proj00027-3UG-UGAS	Proj00027	Undergrounding	CapEx	9/1/2028	2028	3.028928715	0.203200225		
Proj00027-3UG-UGAS	Proj00027-3UG-UGAS	Proj00027	Undergrounding	Incremental_OM_Costs	9/1/2028	2028	0.000455858	0.000466252	0.000476882	0.000487755
Proj00027-3UG-UGAS	Proj00027-3UG-UGAS	Proj00027	Undergrounding	Incremental_OM_Savings	9/1/2028	2028	-0.213161893	-0.218021984	-0.222992885	-0.228077123
Proj00028-3UG-ALT1		Proj00028	Overhead Hardening	CapEx		2028	3.3568	0		
Proj00028-3UG-ALT1		Proj00028	Overhead Hardening	Incremental_OM_Costs		2028	0.008805717	0.009006487	0.009211835	0.009421865
Proj00028-3UG-ALT1		Proj00028	Overhead Hardening	Incremental_OM_Savings		2028	0	0	0	0
Proj00028-3UG-PAS		Proj00028	Overhead Hardening, Undergrounding	CapEx	11/3/2028	2028	8.833000473	0.553869527		
Proj00028-3UG-PAS		Proj00028	Overhead Hardening, Undergrounding	Incremental_OM_Costs	11/3/2028	2028	0.002515677	0.002573034	0.002631699	0.002691702
Proj00028-3UG-PAS		Proj00028	Overhead Hardening, Undergrounding	Incremental_OM_Savings	11/3/2028	2028	-0.565349738	-0.578239712	-0.591423578	-0.604908035
Proj00028-3UG-UGAS	Proj00028-3UG-UGAS	Proj00028	No-Build Baseline	OM_Costs_NBB	11/3/2028	2028	2.20597324	0.769107158	0.786642801	0.804578257
Proj00028-3UG-UGAS	Proj00028-3UG-UGAS	Proj00028	Undergrounding	CapEx	11/3/2028	2028	8.256050473	0.553869527		
Proj00028-3UG-UGAS	Proj00028-3UG-UGAS	Proj00028	Undergrounding	Incremental_OM_Costs	11/3/2028	2028	0.001002194	0.001025044	0.001048415	0.001072319
Proj00028-3UG-UGAS	Proj00028-3UG-UGAS	Proj00028	Undergrounding	Incremental_OM_Savings	11/3/2028	2028	-0.565349738	-0.578239712	-0.591423578	-0.604908035

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rru_id	annual_costs_in_year_5	annual_costs_in_year_6	annual_costs_in_year_7	annual_costs_in_year_8	annual_costs_in_year_9	annual_costs_in_year_10	annual_costs_in_year_11	annual_costs_in_year_12	annual_costs_in_year_13
Proj00001-3UG-ALT1									
Proj00001-3UG-ALT1	0.009184952	0.009394369	0.00960856	0.009827636	0.010051706	0.010280885	0.010515289	0.010755037	0.011000252
Proj00001-3UG-ALT1	-0.037355473	-0.038207177	-0.039078301	-0.039969286	-0.040880586	-0.041812663	-0.042765992	-0.043741057	-0.044738353
Proj00001-3UG-PAS									
Proj00001-3UG-PAS	0.001382383	0.001413901	0.001446138	0.00147911	0.001512834	0.001547326	0.001582606	0.001618689	0.001655595
Proj00001-3UG-PAS	-1.221298681	-1.249144291	-1.277624781	-1.306754626	-1.336548632	-1.367021941	-1.398190041	-1.430068774	-1.462674342
Proj00001-3UG-UGAS	1.301618238	1.331295134	1.361648663	1.392694252	1.424447681	1.456925089	1.490142981	1.524118241	1.558868136
Proj00001-3UG-UGAS									
Proj00001-3UG-UGAS	0.001382383	0.001413901	0.001446138	0.00147911	0.001512834	0.001547326	0.001582606	0.001618689	0.001655595
Proj00001-3UG-UGAS	-1.221298681	-1.249144291	-1.277624781	-1.306754626	-1.336548632	-1.367021941	-1.398190041	-1.430068774	-1.462674342
Proj00002-3UG-ALT1									
Proj00002-3UG-ALT1	0.007739452	0.007915912	0.008096395	0.008280992	0.008469799	0.00866291	0.008860425	0.009062442	0.009269066
Proj00002-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00002-3UG-PAS									
Proj00002-3UG-PAS	0.001110496	0.001135815	0.001161712	0.001188199	0.001215289	0.001242998	0.001271338	0.001300325	0.001329972
Proj00002-3UG-PAS	-0.294848187	-0.301570726	-0.308446539	-0.31547912	-0.322672044	-0.330028966	-0.337553627	-0.345249849	-0.353121546
Proj00002-3UG-UGAS	0.589706002	0.603151299	0.616903149	0.63096854	0.645354623	0.660068709	0.675118275	0.690510972	0.706254622
Proj00002-3UG-UGAS									
Proj00002-3UG-UGAS	0.001110496	0.001135815	0.001161712	0.001188199	0.001215289	0.001242998	0.001271338	0.001300325	0.001329972
Proj00002-3UG-UGAS	-0.294848187	-0.301570726	-0.308446539	-0.31547912	-0.322672044	-0.330028966	-0.337553627	-0.345249849	-0.353121546
Proj00003-3UG-ALT1									
Proj00003-3UG-ALT1	0.025145716	0.025719039	0.026305433	0.026905196	0.027518635	0.02814606	0.02878779	0.029444152	0.030115478
Proj00003-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00003-3UG-PAS									
Proj00003-3UG-PAS	0.004387071	0.004487097	0.004589402	0.004694041	0.004801065	0.004910529	0.005022489	0.005137002	0.005254126
Proj00003-3UG-PAS	-1.465989879	-1.499414448	-1.533601098	-1.568567203	-1.604330535	-1.640909271	-1.678322002	-1.716587744	-1.755725945
Proj00003-3UG-UGAS	1.684299835	1.722701871	1.761979474	1.802152606	1.843241685	1.885267596	1.928251697	1.972215835	2.017182357
Proj00003-3UG-UGAS									
Proj00003-3UG-UGAS	0.004387071	0.004487097	0.004589402	0.004694041	0.004801065	0.004910529	0.005022489	0.005137002	0.005254126
Proj00003-3UG-UGAS	-1.465989879	-1.499414448	-1.533601098	-1.568567203	-1.604330535	-1.640909271	-1.678322002	-1.716587744	-1.755725945
Proj00004-3UG-ALT1									
Proj00004-3UG-ALT1	0.001294923	0.001324447	0.001354644	0.00138553	0.00141712	0.001449431	0.001482478	0.001516278	0.001550849
Proj00004-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00004-3UG-PAS									
Proj00004-3UG-PAS	0.000182794	0.000186961	0.000191224	0.000195584	0.000200043	0.000204604	0.000209269	0.000214041	0.000218921
Proj00004-3UG-PAS	-0.052572781	-0.053771441	-0.054997429	-0.056251371	-0.057533902	-0.058845675	-0.060187356	-0.061559628	-0.062963188
Proj00004-3UG-UGAS	0.059427255	0.060782196	0.06216803	0.063585461	0.06503521	0.066518013	0.068034623	0.069585813	0.071172369
Proj00004-3UG-UGAS									
Proj00004-3UG-UGAS	0.000182794	0.000186961	0.000191224	0.000195584	0.000200043	0.000204604	0.000209269	0.000214041	0.000218921
Proj00004-3UG-UGAS	-0.052572781	-0.053771441	-0.054997429	-0.056251371	-0.057533902	-0.058845675	-0.060187356	-0.061559628	-0.062963188
Proj00005-3UG-ALT1									
Proj00005-3UG-ALT1	0.017074986	0.017464295	0.017862481	0.018269746	0.018686296	0.019112344	0.019548105	0.019993802	0.020449661
Proj00005-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00005-3UG-PAS									
Proj00005-3UG-PAS	0.002509617	0.002566836	0.00262536	0.002685218	0.002746441	0.00280906	0.002873106	0.002938613	0.003005614
Proj00005-3UG-PAS	-1.343209962	-1.37383515	-1.405158591	-1.437196207	-1.46996428	-1.503479466	-1.537758798	-1.572819698	-1.608679987
Proj00005-3UG-UGAS	1.409094037	1.441221381	1.474081229	1.507690281	1.542065619	1.577224716	1.613185439	1.649966067	1.687585293
Proj00005-3UG-UGAS									
Proj00005-3UG-UGAS	0.002509617	0.002566836	0.00262536	0.002685218	0.002746441	0.00280906	0.002873106	0.002938613	0.003005614
Proj00005-3UG-UGAS	-1.343209962	-1.37383515	-1.405158591	-1.437196207	-1.46996428	-1.503479466	-1.537758798	-1.572819698	-1.608679987
Proj00006-3UG-ALT1									
Proj00006-3UG-ALT1	0.003704093	0.003788547	0.003874925	0.003963274	0.004053636	0.004146059	0.004240589	0.004337275	0.004436165
Proj00006-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00006-3UG-PAS									
Proj00006-3UG-PAS	0.001847064	0.001889177	0.00193225	0.001976305	0.002021365	0.002067452	0.00211459	0.002162803	0.002212115
Proj00006-3UG-PAS	-0.080767782	-0.082609288	-0.084492779	-0.086419215	-0.088389573	-0.090404855	-0.092466086	-0.094574313	-0.096730607
Proj00006-3UG-UGAS	0.156333929	0.159898343	0.163544025	0.167272829	0.171086649	0.174987425	0.178977138	0.183057817	0.187231535
Proj00006-3UG-UGAS									
Proj00006-3UG-UGAS	0.000220876	0.000225912	0.000231063	0.000236332	0.00024172	0.000247231	0.000252868	0.000258633	0.00026453
Proj00006-3UG-UGAS	-0.080767782	-0.082609288	-0.084492779	-0.086419215	-0.088389573	-0.090404855	-0.092466086	-0.094574313	-0.096730607
Proj00007-3UG-ALT1									
Proj00007-3UG-ALT1	0.024663893	0.02522623	0.025801388	0.026389659	0.026991343	0.027606746	0.02823618	0.028879965	0.029538428
Proj00007-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00007-3UG-PAS									
Proj00007-3UG-PAS	0.021578074	0.022070054	0.022573251	0.023087922	0.023614326	0.024152733	0.024703415	0.025266653	0.025842733
Proj00007-3UG-PAS	-0.068453763	-0.070014509	-0.07161084	-0.073243567	-0.074913521	-0.076621549	-0.07836852	-0.080155322	-0.081982864
Proj00007-3UG-UGAS	0.6330216	0.647454492	0.662216455	0.67731499	0.692757772	0.708552649	0.724707649	0.741230984	0.75813105
Proj00007-3UG-UGAS									
Proj00007-3UG-UGAS	0.00040748	0.00041677	0.000426273	0.000435992	0.000445932	0.0004561	0.000466499	0.000477135	0.000488014
Proj00007-3UG-UGAS	-0.068453763	-0.070014509	-0.07161084	-0.073243567	-0.074913521	-0.076621549	-0.07836852	-0.080155322	-0.081982864

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SPD-37 Table 7: Annual Costs (Capital and O&M) and O&M Savings

rru_id	annual_costs_in_year_5	annual_costs_in_year_6	annual_costs_in_year_7	annual_costs_in_year_8	annual_costs_in_year_9	annual_costs_in_year_10	annual_costs_in_year_11	annual_costs_in_year_12	annual_costs_in_year_13
Proj00008-3UG-ALT1									
Proj00008-3UG-ALT1	0.056224019	0.057505926	0.058817061	0.06015809	0.061529695	0.062932572	0.064367435	0.065835012	0.06733605
Proj00008-3UG-ALT1	-0.023403843	-0.023937451	-0.024483225	-0.025041442	-0.025612387	-0.026196349	-0.026793626	-0.027404521	-0.028029344
Proj00008-3UG-PAS									
Proj00008-3UG-PAS	0.035520327	0.03633019	0.037158518	0.038005733	0.038872263	0.039758551	0.040665046	0.041592209	0.042540511
Proj00008-3UG-PAS	-0.321664251	-0.328998195	-0.336499354	-0.34417154	-0.352018651	-0.360044676	-0.368253694	-0.376649879	-0.385237496
Proj00008-3UG-UGAS	1.039475704	1.06317575	1.087416157	1.112209245	1.137567616	1.163504158	1.190032053	1.217164783	1.24491614
Proj00008-3UG-UGAS									
Proj00008-3UG-UGAS	0.005676726	0.005806155	0.005938536	0.006073934	0.00621242	0.006354063	0.006498936	0.006647112	0.006798666
Proj00008-3UG-UGAS	-0.321664251	-0.328998195	-0.336499354	-0.34417154	-0.352018651	-0.360044676	-0.368253694	-0.376649879	-0.385237496
Proj00009-3UG-ALT1									
Proj00009-3UG-ALT1	0.021050117	0.021530059	0.022020945	0.022523022	0.023036547	0.023561781	0.024098989	0.024648446	0.025210431
Proj00009-3UG-ALT1	-0.012247006	-0.012526237	-0.012811836	-0.013103946	-0.013402715	-0.013708297	-0.014020847	-0.014340522	-0.014667486
Proj00009-3UG-PAS									
Proj00009-3UG-PAS	0.004694615	0.004801653	0.00491113	0.005023104	0.005137631	0.005254769	0.005374578	0.005497118	0.005622452
Proj00009-3UG-PAS	-1.172938978	-1.199681987	-1.227034737	-1.255011129	-1.283625382	-1.312892041	-1.342825979	-1.373442412	-1.404756899
Proj00009-3UG-UGAS	1.439317101	1.472133531	1.505698175	1.540028094	1.575140734	1.611053943	1.647785973	1.685355493	1.723781598
Proj00009-3UG-UGAS									
Proj00009-3UG-UGAS	0.003309343	0.003384796	0.003461969	0.003540902	0.003621635	0.003704208	0.003788664	0.003875046	0.003963397
Proj00009-3UG-UGAS	-1.172938978	-1.199681987	-1.227034737	-1.255011129	-1.283625382	-1.312892041	-1.342825979	-1.373442412	-1.404756899
Proj00010-3UG-ALT1									
Proj00010-3UG-ALT1	0.023549626	0.024086558	0.024635731	0.025197426	0.025771927	0.026359527	0.026960524	0.027575224	0.028203939
Proj00010-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00010-3UG-PAS									
Proj00010-3UG-PAS	0.006475131	0.006622764	0.006773763	0.006928204	0.007086167	0.007247732	0.00741298	0.007581996	0.007754866
Proj00010-3UG-PAS	-0.422401162	-0.432031909	-0.441882236	-0.451957151	-0.462261774	-0.472801343	-0.483581213	-0.494606865	-0.505883901
Proj00010-3UG-UGAS	0.660350925	0.675406926	0.690806204	0.706556586	0.722666076	0.739142862	0.755995319	0.773232013	0.790861703
Proj00010-3UG-UGAS									
Proj00010-3UG-UGAS	0.002981836	0.003049822	0.003119357	0.003190479	0.003263222	0.003337623	0.003413721	0.003491554	0.003571161
Proj00010-3UG-UGAS	-0.422401162	-0.432031909	-0.441882236	-0.451957151	-0.462261774	-0.472801343	-0.483581213	-0.494606865	-0.505883901
Proj00011-3UG-ALT1									
Proj00011-3UG-ALT1	0.014485133	0.014815394	0.015153185	0.015498678	0.015852048	0.016213475	0.016583142	0.016961237	0.017347954
Proj00011-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00011-3UG-PAS									
Proj00011-3UG-PAS	0.002281124	0.002333134	0.002386329	0.002440738	0.002496386	0.002553304	0.002611519	0.002671062	0.002731962
Proj00011-3UG-PAS	-0.990588007	-1.013173413	-1.036273767	-1.059900809	-1.084066547	-1.108783264	-1.134063523	-1.159920171	-1.186366351
Proj00011-3UG-UGAS	2.034149461	2.080528069	2.127964108	2.17648169	2.226105473	2.276860677	2.328773101	2.381869128	2.436175744
Proj00011-3UG-UGAS									
Proj00011-3UG-UGAS	0.002281124	0.002333134	0.002386329	0.002440738	0.002496386	0.002553304	0.002611519	0.002671062	0.002731962
Proj00011-3UG-UGAS	-0.990588007	-1.013173413	-1.036273767	-1.059900809	-1.084066547	-1.108783264	-1.134063523	-1.159920171	-1.186366351
Proj00012-3UG-ALT1									
Proj00012-3UG-ALT1	0.014605596	0.014938604	0.015279204	0.01562757	0.015983878	0.016348311	0.016721052	0.017102292	0.017492224
Proj00012-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00012-3UG-PAS									
Proj00012-3UG-PAS	0.006137148	0.006277075	0.006420192	0.006566572	0.00671629	0.006869422	0.007026045	0.007186238	0.007350085
Proj00012-3UG-PAS	-0.50818696	-0.519773623	-0.531624462	-0.5437455	-0.556142897	-0.568822955	-0.581792118	-0.595056979	-0.608624278
Proj00012-3UG-UGAS	0.767411667	0.784908653	0.80280457	0.821108515	0.839829789	0.858977908	0.878562604	0.898593832	0.919081771
Proj00012-3UG-UGAS									
Proj00012-3UG-UGAS	0.002071673	0.002118907	0.002167218	0.00221663	0.00226717	0.002318861	0.002371731	0.002425807	0.002481115
Proj00012-3UG-UGAS	-0.50818696	-0.519773623	-0.531624462	-0.5437455	-0.556142897	-0.568822955	-0.581792118	-0.595056979	-0.608624278
Proj00013-3UG-ALT1									
Proj00013-3UG-ALT1	0.023248488	0.023778554	0.024320705	0.024875217	0.025442372	0.026022458	0.02661577	0.027222609	0.027843285
Proj00013-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00013-3UG-PAS									
Proj00013-3UG-PAS	0.004040171	0.004132287	0.004226503	0.004322867	0.004421429	0.004522237	0.004625344	0.004730802	0.004838664
Proj00013-3UG-PAS	-0.870854207	-0.890709683	-0.911017864	-0.931789071	-0.953033862	-0.974763034	-0.996987631	-1.019718949	-1.042968541
Proj00013-3UG-UGAS	1.034203565	1.057783407	1.081900868	1.106568208	1.131797963	1.157602957	1.183996304	1.21099142	1.238602024
Proj00013-3UG-UGAS									
Proj00013-3UG-UGAS	0.004010056	0.004101486	0.004194999	0.004290645	0.004388472	0.004488529	0.004590868	0.00469554	0.004802598
Proj00013-3UG-UGAS	-0.870854207	-0.890709683	-0.911017864	-0.931789071	-0.953033862	-0.974763034	-0.996987631	-1.019718949	-1.042968541
Proj00014-3UG-ALT1									
Proj00014-3UG-ALT1	0.003794452	0.003880965	0.003969451	0.004059955	0.004152522	0.004247199	0.004344035	0.004443079	0.004544381
Proj00014-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00014-3UG-PAS									
Proj00014-3UG-PAS	0.000479837	0.000490777	0.000501967	0.000513412	0.000525118	0.00053709	0.000549336	0.000561861	0.000574671
Proj00014-3UG-PAS	-0.210575484	-0.215376605	-0.220287192	-0.22530974	-0.230446802	-0.235700989	-0.241074971	-0.246571481	-0.25219331
Proj00014-3UG-UGAS	0.243959352	0.249521625	0.255210718	0.261029522	0.266980995	0.273068162	0.279294116	0.285662022	0.292175116
Proj00014-3UG-UGAS									
Proj00014-3UG-UGAS	0.000479837	0.000490777	0.000501967	0.000513412	0.000525118	0.00053709	0.000549336	0.000561861	0.000574671
Proj00014-3UG-UGAS	-0.210575484	-0.215376605	-0.220287192	-0.22530974	-0.230446802	-0.235700989	-0.241074971	-0.246571481	-0.25219331
Proj00015-3UG-ALT1									
Proj00015-3UG-ALT1	0.068721583	0.070288435	0.071891011	0.073530126	0.075206613	0.076921324	0.07867513	0.080468923	0.082303614
Proj00015-3UG-ALT1	-0.034881906	-0.035677214	-0.036490654	-0.037322641	-0.038173597	-0.039043955	-0.039934157	-0.040844656	-0.041775914
Proj00015-3UG-PAS									
Proj00015-3UG-PAS	0.020353307	0.020817363	0.021291999	0.021777456	0.022273982	0.022781829	0.023301255	0.023832523	0.024375905
Proj00015-3UG-PAS	-1.177912429	-1.204768832	-1.232237562	-1.260332578	-1.289068161	-1.318458915	-1.348519778	-1.379266029	-1.410713295
Proj00015-3UG-UGAS	1.727939793	1.76733682	1.8076321	1.848846112	1.890999803	1.934114599	1.978212411	2.023315654	2.069447251
Proj00015-3UG-UGAS									
Proj00015-3UG-UGAS	0.009030207	0.009236096	0.009446679	0.009662063	0.009882358	0.010107676	0.010338131	0.01057384	0.010814924
Proj00015-3UG-UGAS	-1.177912429	-1.204768832	-1.232237562	-1.260332578	-1.289068161	-1.318458915	-1.348519778	-1.379266029	-1.410713295
Proj00016-3UG-ALT1									

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SPD-37 Table 7: Annual Costs (Capital and O&M) and O&M Savings

rru_id	annual_costs_in_year_5	annual_costs_in_year_6	annual_costs_in_year_7	annual_costs_in_year_8	annual_costs_in_year_9	annual_costs_in_year_10	annual_costs_in_year_11	annual_costs_in_year_12	annual_costs_in_year_13
Proj00016-3UG-ALT1	0.077394585	0.079159182	0.080964011	0.082809991	0.084698059	0.086629174	0.088604319	0.090624498	0.092690737
Proj00016-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00016-3UG-PAS									
Proj00016-3UG-PAS	0.073985383	0.07567225	0.077397577	0.079162242	0.080967141	0.082813192	0.084701333	0.086632523	0.088607745
Proj00016-3UG-PAS	-0.077947629	-0.079724835	-0.081542562	-0.083401732	-0.085303292	-0.087248207	-0.089237466	-0.09127208	-0.093353083
Proj00016-3UG-UGAS	1.808874143	1.850116474	1.892299129	1.93544355	1.979571663	2.024705896	2.070869191	2.118085008	2.166377347
Proj00016-3UG-UGAS									
Proj00016-3UG-UGAS	0.000806845	0.000825241	0.000844057	0.000863301	0.000882984	0.000903117	0.000923708	0.000944768	0.000966309
Proj00016-3UG-UGAS	-0.077947629	-0.079724835	-0.081542562	-0.083401732	-0.085303292	-0.087248207	-0.089237466	-0.09127208	-0.093353083
Proj00017-3UG-ALT1									
Proj00017-3UG-ALT1	0.021833095	0.02233089	0.022840034	0.023360787	0.023893413	0.024438182	0.024995373	0.025565267	0.026148156
Proj00017-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00017-3UG-PAS									
Proj00017-3UG-PAS	0.014433787	0.014762878	0.015099471	0.015443739	0.015795856	0.016156002	0.016524359	0.016901114	0.01728646
Proj00017-3UG-PAS	-0.369197872	-0.377615584	-0.386225219	-0.395031154	-0.404037864	-0.413249928	-0.422672026	-0.432308948	-0.442165592
Proj00017-3UG-UGAS	1.105054175	1.13024941	1.156019096	1.182376332	1.209334512	1.236907339	1.265108826	1.293953307	1.323455443
Proj00017-3UG-UGAS									
Proj00017-3UG-UGAS	0.001424274	0.001456748	0.001489961	0.001523933	0.001558678	0.001594216	0.001630564	0.001667741	0.001705766
Proj00017-3UG-UGAS	-0.369197872	-0.377615584	-0.386225219	-0.395031154	-0.404037864	-0.413249928	-0.422672026	-0.432308948	-0.442165592
Proj00018-3UG-ALT1									
Proj00018-3UG-ALT1	0.007076932	0.007238286	0.007403319	0.007572115	0.007744759	0.00792134	0.008101946	0.008286671	0.008475607
Proj00018-3UG-ALT1	-0.003274346	-0.003349002	-0.003425359	-0.003503457	-0.003583336	-0.003665036	-0.003748599	-0.003834067	-0.003921483
Proj00018-3UG-PAS									
Proj00018-3UG-PAS	0.000936822	0.000958181	0.000980028	0.001002372	0.001025227	0.001048602	0.00107251	0.001096963	0.001121974
Proj00018-3UG-PAS	-0.305132695	-0.31208972	-0.319205366	-0.326483248	-0.333927066	-0.341540603	-0.349327729	-0.357292401	-0.365438668
Proj00018-3UG-UGAS	0.41165036	0.421035988	0.430635608	0.4404541	0.450496454	0.460767773	0.471273278	0.482018309	0.493008326
Proj00018-3UG-UGAS									
Proj00018-3UG-UGAS	0.000936822	0.000958181	0.000980028	0.001002372	0.001025227	0.001048602	0.00107251	0.001096963	0.001121974
Proj00018-3UG-UGAS	-0.305132695	-0.31208972	-0.319205366	-0.326483248	-0.333927066	-0.341540603	-0.349327729	-0.357292401	-0.365438668
Proj00019-3UG-ALT1									
Proj00019-3UG-ALT1	0.025687779	0.02627346	0.026872495	0.027485188	0.02811185	0.0287528	0.029408364	0.030078875	0.030764673
Proj00019-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00019-3UG-PAS									
Proj00019-3UG-PAS	0.004272825	0.004370245	0.004469886	0.0045718	0.004676037	0.004782651	0.004891695	0.005003226	0.005117299
Proj00019-3UG-PAS	-1.198205327	-1.225524408	-1.253466365	-1.282045398	-1.311276033	-1.341173127	-1.371751874	-1.403027817	-1.435016851
Proj00019-3UG-UGAS	1.423808214	1.456271041	1.489474021	1.523434029	1.558168325	1.593694562	1.630030798	1.667195501	1.705207558
Proj00019-3UG-UGAS									
Proj00019-3UG-UGAS	0.004272825	0.004370245	0.004469886	0.0045718	0.004676037	0.004782651	0.004891695	0.005003226	0.005117299
Proj00019-3UG-UGAS	-1.198205327	-1.225524408	-1.253466365	-1.282045398	-1.311276033	-1.341173127	-1.371751874	-1.403027817	-1.435016851
Proj00020-3UG-ALT1									
Proj00020-3UG-ALT1	0.014756178	0.015092619	0.015436731	0.015788688	0.01614867	0.01651686	0.016893444	0.017278615	0.017672567
Proj00020-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00020-3UG-PAS									
Proj00020-3UG-PAS	0.002090715	0.002138383	0.002187138	0.002237005	0.002288009	0.002340176	0.002393532	0.002448104	0.002503921
Proj00020-3UG-PAS	-1.034482444	-1.058068644	-1.082192609	-1.1068666	-1.132103159	-1.157915111	-1.184315575	-1.21131797	-1.23893602
Proj00020-3UG-UGAS	1.137498401	1.163433365	1.189959645	1.217090725	1.244840394	1.273222755	1.302252234	1.331943585	1.362311898
Proj00020-3UG-UGAS									
Proj00020-3UG-UGAS	0.002090715	0.002138383	0.002187138	0.002237005	0.002288009	0.002340176	0.002393532	0.002448104	0.002503921
Proj00020-3UG-UGAS	-1.034482444	-1.058068644	-1.082192609	-1.1068666	-1.132103159	-1.157915111	-1.184315575	-1.21131797	-1.23893602
Proj00021-3UG-ALT1									
Proj00021-3UG-ALT1	0.060199136	0.061571677	0.062975511	0.064411353	0.065879931	0.067381994	0.068918303	0.070489641	0.072096804
Proj00021-3UG-ALT1	-0.013242976	-0.013544915	-0.013853739	-0.014169605	-0.014492672	-0.014823105	-0.015161071	-0.015506744	-0.015860298
Proj00021-3UG-PAS									
Proj00021-3UG-PAS	0.008911237	0.009114413	0.009322222	0.009534769	0.009752161	0.009974511	0.01020193	0.010434534	0.010672441
Proj00021-3UG-PAS	-1.520747725	-1.555420774	-1.590884367	-1.627156531	-1.6642557	-1.70220073	-1.741010906	-1.780705955	-1.821306051
Proj00021-3UG-UGAS	1.778229673	1.818773309	1.860241341	1.902654843	1.946035374	1.99040498	2.035786214	2.082202139	2.129676348
Proj00021-3UG-UGAS									
Proj00021-3UG-UGAS	0.008911237	0.009114413	0.009322222	0.009534769	0.009752161	0.009974511	0.01020193	0.010434534	0.010672441
Proj00021-3UG-UGAS	-1.520747725	-1.555420774	-1.590884367	-1.627156531	-1.6642557	-1.70220073	-1.741010906	-1.780705955	-1.821306051
Proj00022-3UG-ALT1									
Proj00022-3UG-ALT1	0.007257625	0.007423099	0.007592345	0.007765451	0.007942503	0.008123592	0.00830881	0.008498251	0.008692011
Proj00022-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00022-3UG-PAS									
Proj00022-3UG-PAS	0.006521046	0.006669725	0.006821795	0.006977332	0.007136415	0.007299126	0.007465546	0.00763576	0.007809855
Proj00022-3UG-PAS	-0.015428412	-0.015780179	-0.016139967	-0.016507959	-0.01688434	-0.017269303	-0.017663043	-0.018065761	-0.01847766
Proj00022-3UG-UGAS	0.168411018	0.172250789	0.176178107	0.180194968	0.184303413	0.188505531	0.192803457	0.197199376	0.201695522
Proj00022-3UG-UGAS									
Proj00022-3UG-UGAS	0.00010663	0.000109061	0.000111548	0.000114091	0.000116693	0.000119353	0.000122074	0.000124858	0.000127704
Proj00022-3UG-UGAS	-0.015428412	-0.015780179	-0.016139967	-0.016507959	-0.01688434	-0.017269303	-0.017663043	-0.018065761	-0.01847766
Proj00023-3UG-ALT1									
Proj00023-3UG-ALT1	0.074413248	0.07610987	0.077845175	0.079620045	0.081435382	0.083292109	0.085191169	0.087133528	0.089120172
Proj00023-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00023-3UG-PAS									
Proj00023-3UG-PAS	0.013321752	0.013625488	0.013936149	0.014253894	0.014578882	0.014911281	0.015251258	0.015598987	0.015954644
Proj00023-3UG-PAS	-3.348768338	-3.425120256	-3.503212998	-3.583086254	-3.664780621	-3.748337619	-3.833799717	-3.92121035	-4.010613946
Proj00023-3UG-UGAS	3.662218255	3.745716831	3.831119175	3.918468692	4.007809778	4.099187841	4.192649324	4.288241728	4.38601364
Proj00023-3UG-UGAS									
Proj00023-3UG-UGAS	0.01271946	0.013009463	0.013306079	0.013609458	0.013919753	0.014237124	0.01456173	0.014893738	0.015233315
Proj00023-3UG-UGAS	-3.348768338	-3.425120256	-3.503212998	-3.583086254	-3.664780621	-3.748337619	-3.833799717	-3.92121035	-4.010613946
Proj00024-3UG-ALT1									
Proj00024-3UG-ALT1	0.003433069	0.003511343	0.003591402	0.003673286	0.003757037	0.003842697	0.003930311	0.004019922	0.004111576

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rru_id	annual_costs_in_year_5	annual_costs_in_year_6	annual_costs_in_year_7	annual_costs_in_year_8	annual_costs_in_year_9	annual_costs_in_year_10	annual_costs_in_year_11	annual_costs_in_year_12	annual_costs_in_year_13
Proj00024-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00024-3UG-PAS									
Proj00024-3UG-PAS	0.000468411	0.000479091	0.000490015	0.000501187	0.000512614	0.000524301	0.000536256	0.000548482	0.000560988
Proj00024-3UG-PAS	-0.238816403	-0.244261417	-0.249830577	-0.255526714	-0.261352724	-0.267311566	-0.273406269	-0.279639932	-0.286015723
Proj00024-3UG-UGAS	0.267791798	0.273897451	0.280142313	0.286529558	0.293062432	0.299744255	0.306578424	0.313568412	0.320717772
Proj00024-3UG-UGAS									
Proj00024-3UG-UGAS	0.000468411	0.000479091	0.000490015	0.000501187	0.000512614	0.000524301	0.000536256	0.000548482	0.000560988
Proj00024-3UG-UGAS	-0.238816403	-0.244261417	-0.249830577	-0.255526714	-0.261352724	-0.267311566	-0.273406269	-0.279639932	-0.286015723
Proj00025-3UG-ALT1									
Proj00025-3UG-ALT1	0.008552563	0.008747561	0.008947006	0.009150997	0.00935964	0.00957304	0.009791305	0.010014547	0.010242878
Proj00025-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00025-3UG-PAS									
Proj00025-3UG-PAS	0.001363345	0.001394429	0.001426222	0.00145874	0.001491999	0.001526017	0.00156081	0.001596396	0.001632794
Proj00025-3UG-PAS	-0.509778183	-0.521401126	-0.533289071	-0.545448062	-0.557884278	-0.57060404	-0.583613812	-0.596920207	-0.610529987
Proj00025-3UG-UGAS	0.584950741	0.598287618	0.611928576	0.625880547	0.640150624	0.654746058	0.669674268	0.684942842	0.700559538
Proj00025-3UG-UGAS									
Proj00025-3UG-UGAS	0.001363345	0.001394429	0.001426222	0.00145874	0.001491999	0.001526017	0.00156081	0.001596396	0.001632794
Proj00025-3UG-UGAS	-0.509778183	-0.521401126	-0.533289071	-0.545448062	-0.557884278	-0.57060404	-0.583613812	-0.596920207	-0.610529987
Proj00026-3UG-ALT1									
Proj00026-3UG-ALT1	0.010208853	0.010441615	0.010679683	0.01092318	0.011172229	0.011426955	0.01168749	0.011953965	0.012226515
Proj00026-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00026-3UG-PAS									
Proj00026-3UG-PAS	0.001252904	0.00128147	0.001310688	0.001340571	0.001371137	0.001402398	0.001434373	0.001467077	0.001500526
Proj00026-3UG-PAS	-0.714447772	-0.730737181	-0.747397989	-0.764438663	-0.781867864	-0.799694452	-0.817927485	-0.836576232	-0.85565017
Proj00026-3UG-UGAS	0.784064248	0.801940913	0.820225166	0.8389263	0.858053819	0.877617447	0.897627124	0.918093023	0.939025544
Proj00026-3UG-UGAS									
Proj00026-3UG-UGAS	0.001252904	0.00128147	0.001310688	0.001340571	0.001371137	0.001402398	0.001434373	0.001467077	0.001500526
Proj00026-3UG-UGAS	-0.714447772	-0.730737181	-0.747397989	-0.764438663	-0.781867864	-0.799694452	-0.817927485	-0.836576232	-0.85565017
Proj00027-3UG-ALT1									
Proj00027-3UG-ALT1	0.003975124	0.004065757	0.004158456	0.004253269	0.004350243	0.004449429	0.004550876	0.004654636	0.004760761
Proj00027-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00027-3UG-PAS									
Proj00027-3UG-PAS	0.000498876	0.00051025	0.000521884	0.000533783	0.000545953	0.000558401	0.000571133	0.000584155	0.000597473
Proj00027-3UG-PAS	-0.233277281	-0.238596003	-0.244035992	-0.249600013	-0.255290893	-0.261111526	-0.267064868	-0.273153947	-0.279381857
Proj00027-3UG-UGAS	0.254389711	0.260189797	0.266122124	0.272189709	0.278395634	0.284743054	0.291235196	0.297875358	0.304666917
Proj00027-3UG-UGAS									
Proj00027-3UG-UGAS	0.000498876	0.00051025	0.000521884	0.000533783	0.000545953	0.000558401	0.000571133	0.000584155	0.000597473
Proj00027-3UG-UGAS	-0.233277281	-0.238596003	-0.244035992	-0.249600013	-0.255290893	-0.261111526	-0.267064868	-0.273153947	-0.279381857
Proj00028-3UG-ALT1									
Proj00028-3UG-ALT1	0.009636683	0.0098564	0.010081126	0.010310975	0.010546066	0.010786516	0.011032448	0.011283988	0.011541263
Proj00028-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00028-3UG-PAS									
Proj00028-3UG-PAS	0.002753073	0.002815843	0.002880044	0.002945709	0.003012871	0.003081565	0.003151825	0.003223686	0.003297186
Proj00028-3UG-PAS	-0.618699939	-0.632806297	-0.647234281	-0.661991222	-0.677084622	-0.692522152	-0.708311657	-0.724461163	-0.740978877
Proj00028-3UG-UGAS	0.822922641	0.841685277	0.860875702	0.880503667	0.900579151	0.921112356	0.942113717	0.96359391	0.985563851
Proj00028-3UG-UGAS									
Proj00028-3UG-UGAS	0.001096768	0.001121774	0.001147351	0.00117351	0.001200266	0.001227632	0.001255623	0.001284251	0.001313532
Proj00028-3UG-UGAS	-0.618699939	-0.632806297	-0.647234281	-0.661991222	-0.677084622	-0.692522152	-0.708311657	-0.724461163	-0.740978877

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rru_id	annual_costs_in_year_14	annual_costs_in_year_15	annual_costs_in_year_16	annual_costs_in_year_17	annual_costs_in_year_18	annual_costs_in_year_19	annual_costs_in_year_20	annual_costs_in_year_21	annual_costs_in_year_22
Proj00001-3UG-ALT1									
Proj00001-3UG-ALT1	0.011251058	0.011507582	0.011769955	0.01203831	0.012312783	0.012593515	0.012880647	0.013174326	0.0134747
Proj00001-3UG-ALT1	-0.045758387	-0.046801678	-0.047868757	-0.048960164	-0.050076456	-0.051218199	-0.052385974	-0.053580375	-0.054802007
Proj00001-3UG-PAS									
Proj00001-3UG-PAS	0.001693343	0.001731951	0.001771439	0.001811828	0.001853138	0.001895389	0.001938604	0.001982804	0.002028012
Proj00001-3UG-PAS	-1.496023317	-1.530132648	-1.565019673	-1.600702121	-1.63719813	-1.674526247	-1.712705445	-1.75175513	-1.791695147
Proj00001-3UG-UGAS	1.59441033	1.630762885	1.667944279	1.705973409	1.744869603	1.784652629	1.825342709	1.866960523	1.909527223
Proj00001-3UG-UGAS									
Proj00001-3UG-UGAS	0.001693343	0.001731951	0.001771439	0.001811828	0.001853138	0.001895389	0.001938604	0.001982804	0.002028012
Proj00001-3UG-UGAS	-1.496023317	-1.530132648	-1.565019673	-1.600702121	-1.63719813	-1.674526247	-1.712705445	-1.75175513	-1.791695147
Proj00002-3UG-ALT1									
Proj00002-3UG-ALT1	0.009480401	0.009696554	0.009917635	0.010143757	0.010375035	0.010611586	0.01085353	0.011100991	0.011354093
Proj00002-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00002-3UG-PAS									
Proj00002-3UG-PAS	0.001360296	0.00139131	0.001423032	0.001455478	0.001488662	0.001522604	0.001557319	0.001592826	0.001629143
Proj00002-3UG-PAS	-0.361172717	-0.369407455	-0.377829945	-0.386444468	-0.395255402	-0.404267225	-0.413484518	-0.422911965	-0.432554357
Proj00002-3UG-UGAS	0.722357227	0.738826972	0.755672227	0.772901554	0.790523709	0.80854765	0.826982536	0.845837738	0.865122839
Proj00002-3UG-UGAS									
Proj00002-3UG-UGAS	0.001360296	0.00139131	0.001423032	0.001455478	0.001488662	0.001522604	0.001557319	0.001592826	0.001629143
Proj00002-3UG-UGAS	-0.361172717	-0.369407455	-0.377829945	-0.386444468	-0.395255402	-0.404267225	-0.413484518	-0.422911965	-0.432554357
Proj00003-3UG-ALT1									
Proj00003-3UG-ALT1	0.030802111	0.031504399	0.0322227	0.032957377	0.033708805	0.034477366	0.03526345	0.036067457	0.036889795
Proj00003-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00003-3UG-PAS									
Proj00003-3UG-PAS	0.00537392	0.005496445	0.005621764	0.00574994	0.005881039	0.006015127	0.006152271	0.006292543	0.006436013
Proj00003-3UG-PAS	-1.795756496	-1.836699744	-1.878576498	-1.921408043	-1.965216146	-2.010023074	-2.0558516	-2.102725017	-2.150667147
Proj00003-3UG-UGAS	2.063174114	2.110214484	2.158327374	2.207537238	2.257869087	2.309348503	2.362001648	2.415855286	2.470936787
Proj00003-3UG-UGAS									
Proj00003-3UG-UGAS	0.00537392	0.005496445	0.005621764	0.00574994	0.005881039	0.006015127	0.006152271	0.006292543	0.006436013
Proj00003-3UG-UGAS	-1.795756496	-1.836699744	-1.878576498	-1.921408043	-1.965216146	-2.010023074	-2.0558516	-2.102725017	-2.150667147
Proj00004-3UG-ALT1									
Proj00004-3UG-ALT1	0.001586209	0.001622374	0.001659364	0.001697198	0.001735894	0.001775472	0.001815953	0.001857357	0.001899705
Proj00004-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00004-3UG-PAS									
Proj00004-3UG-PAS	0.000223912	0.000229017	0.000234239	0.00023958	0.000245042	0.000250629	0.000256343	0.000262188	0.000268166
Proj00004-3UG-PAS	-0.064398748	-0.06586704	-0.067368808	-0.068904817	-0.070475847	-0.072082696	-0.073726182	-0.075407139	-0.077126421
Proj00004-3UG-UGAS	0.072795099	0.074454827	0.076152398	0.077888672	0.079664534	0.081480885	0.083338649	0.085238771	0.087182215
Proj00004-3UG-UGAS									
Proj00004-3UG-UGAS	0.000223912	0.000229017	0.000234239	0.00023958	0.000245042	0.000250629	0.000256343	0.000262188	0.000268166
Proj00004-3UG-UGAS	-0.064398748	-0.06586704	-0.067368808	-0.068904817	-0.070475847	-0.072082696	-0.073726182	-0.075407139	-0.077126421
Proj00005-3UG-ALT1									
Proj00005-3UG-ALT1	0.020915913	0.021392796	0.021880551	0.022379428	0.022889679	0.023411564	0.023945347	0.024491301	0.025049703
Proj00005-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00005-3UG-PAS									
Proj00005-3UG-PAS	0.003074142	0.003144232	0.00321592	0.003289243	0.003364238	0.003440943	0.003519396	0.003599639	0.00368171
Proj00005-3UG-PAS	-1.645357891	-1.682872051	-1.721241534	-1.760485841	-1.800624918	-1.841679166	-1.883669451	-1.926617115	-1.970543985
Proj00005-3UG-UGAS	1.726062238	1.765416457	1.805667952	1.846837182	1.888945069	1.932013017	1.976062914	2.021117148	2.067198619
Proj00005-3UG-UGAS									
Proj00005-3UG-UGAS	0.003074142	0.003144232	0.00321592	0.003289243	0.003364238	0.003440943	0.003519396	0.003599639	0.00368171
Proj00005-3UG-UGAS	-1.645357891	-1.682872051	-1.721241534	-1.760485841	-1.800624918	-1.841679166	-1.883669451	-1.926617115	-1.970543985
Proj00006-3UG-ALT1									
Proj00006-3UG-ALT1	0.004537309	0.00464076	0.004746569	0.004854791	0.00496548	0.005078693	0.005194487	0.005312922	0.005434056
Proj00006-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00006-3UG-PAS									
Proj00006-3UG-PAS	0.002262551	0.002314137	0.002366899	0.002420865	0.00247606	0.002532515	0.002590256	0.002649314	0.002709718
Proj00006-3UG-PAS	-0.098936065	-0.101191807	-0.10349898	-0.105858757	-0.108272337	-0.110740946	-0.11326584	-0.115848301	-0.118489642
Proj00006-3UG-UGAS	0.191500414	0.195866624	0.200332383	0.204899961	0.20957168	0.214349915	0.219237093	0.224235698	0.229348272
Proj00006-3UG-UGAS									
Proj00006-3UG-UGAS	0.000270561	0.00027673	0.00028304	0.000289493	0.000296093	0.000302844	0.000309749	0.000316812	0.000324035
Proj00006-3UG-UGAS	-0.098936065	-0.101191807	-0.10349898	-0.105858757	-0.108272337	-0.110740946	-0.11326584	-0.115848301	-0.118489642
Proj00007-3UG-ALT1									
Proj00007-3UG-ALT1	0.030211904	0.030900736	0.031605272	0.032325873	0.033062902	0.033816737	0.034587758	0.035376359	0.03618294
Proj00007-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00007-3UG-PAS									
Proj00007-3UG-PAS	0.026431947	0.027034595	0.027650984	0.028281427	0.028926243	0.029585761	0.030260317	0.030950252	0.031655918
Proj00007-3UG-PAS	-0.083852073	-0.0857639	-0.087719317	-0.089719318	-0.091764918	-0.093857158	-0.095997101	-0.098185835	-0.100424472
Proj00007-3UG-UGAS	0.775416438	0.793095933	0.81117852	0.82967339	0.848589944	0.867937794	0.887726776	0.907966947	0.928668593
Proj00007-3UG-UGAS									
Proj00007-3UG-UGAS	0.00049914	0.000510521	0.000522161	0.000534066	0.000546243	0.000558697	0.000571435	0.000584464	0.00059779
Proj00007-3UG-UGAS	-0.083852073	-0.0857639	-0.087719317	-0.089719318	-0.091764918	-0.093857158	-0.095997101	-0.098185835	-0.100424472

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rru_id	annual_costs_in_year_14	annual_costs_in_year_15	annual_costs_in_year_16	annual_costs_in_year_17	annual_costs_in_year_18	annual_costs_in_year_19	annual_costs_in_year_20	annual_costs_in_year_21	annual_costs_in_year_22
Proj00008-3UG-ALT1									
Proj00008-3UG-ALT1	0.068871312	0.070441578	0.072047646	0.073690332	0.075370472	0.077088919	0.078846546	0.080644247	0.082482936
Proj00008-3UG-ALT1	-0.028668413	-0.029322053	-0.029990596	-0.030674381	-0.031373757	-0.032089079	-0.03282071	-0.033569022	-0.034334396
Proj00008-3UG-PAS									
Proj00008-3UG-PAS	0.043510435	0.044502473	0.045517129	0.04655492	0.047616372	0.048702025	0.049812432	0.050948155	0.052109773
Proj00008-3UG-PAS	-0.394020911	-0.403004588	-0.412193092	-0.421591095	-0.431203372	-0.441034809	-0.451090402	-0.461375263	-0.471894619
Proj00008-3UG-UGAS	1.273300228	1.302331474	1.332024631	1.362394793	1.393457394	1.425228223	1.457723426	1.49095952	1.524953397
Proj00008-3UG-UGAS									
Proj00008-3UG-UGAS	0.006953675	0.007112219	0.007274378	0.007440233	0.007609871	0.007783376	0.007960837	0.008142344	0.008327989
Proj00008-3UG-UGAS	-0.394020911	-0.403004588	-0.412193092	-0.421591095	-0.431203372	-0.441034809	-0.451090402	-0.461375263	-0.471894619
Proj00009-3UG-ALT1									
Proj00009-3UG-ALT1	0.025785228	0.026373132	0.026974439	0.027589456	0.028218496	0.028861878	0.029519928	0.030192983	0.030881383
Proj00009-3UG-ALT1	-0.015001904	-0.015343948	-0.01569379	-0.016051608	-0.016417585	-0.016791906	-0.017174761	-0.017566346	-0.017966859
Proj00009-3UG-PAS									
Proj00009-3UG-PAS	0.005750644	0.005881759	0.006015863	0.006153025	0.006293314	0.006436801	0.00658356	0.006733665	0.006887193
Proj00009-3UG-PAS	-1.436785356	-1.469544062	-1.503049667	-1.537319199	-1.572370077	-1.608220115	-1.644887533	-1.682390969	-1.720749483
Proj00009-3UG-UGAS	1.763083819	1.80328213	1.844396963	1.886449213	1.929460255	1.973451949	2.018446654	2.064467237	2.11153709
Proj00009-3UG-UGAS									
Proj00009-3UG-UGAS	0.004053762	0.004146188	0.004240721	0.004337409	0.004436302	0.00453745	0.004640904	0.004746717	0.004854942
Proj00009-3UG-UGAS	-1.436785356	-1.469544062	-1.503049667	-1.537319199	-1.572370077	-1.608220115	-1.644887533	-1.682390969	-1.720749483
Proj00010-3UG-ALT1									
Proj00010-3UG-ALT1	0.028846989	0.029504701	0.030177408	0.030865453	0.031569185	0.032288962	0.033025151	0.033778124	0.034548265
Proj00010-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00010-3UG-PAS									
Proj00010-3UG-PAS	0.007931677	0.008112519	0.008297484	0.008486667	0.008680163	0.008878071	0.009080491	0.009287526	0.009499282
Proj00010-3UG-PAS	-0.517418054	-0.529215186	-0.541281292	-0.553622506	-0.566245099	-0.579155487	-0.592360232	-0.605866046	-0.619679791
Proj00010-3UG-UGAS	0.808893349	0.827336118	0.846199381	0.865492727	0.885225961	0.905409113	0.926052441	0.947166437	0.968761832
Proj00010-3UG-UGAS									
Proj00010-3UG-UGAS	0.003652584	0.003735863	0.00382104	0.00390816	0.003997266	0.004088404	0.004181619	0.00427696	0.004374475
Proj00010-3UG-UGAS	-0.517418054	-0.529215186	-0.541281292	-0.553622506	-0.566245099	-0.579155487	-0.592360232	-0.605866046	-0.619679791
Proj00011-3UG-ALT1									
Proj00011-3UG-ALT1	0.017743487	0.018148038	0.018561814	0.018985023	0.019417882	0.019860609	0.020313431	0.020776577	0.021250283
Proj00011-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00011-3UG-PAS									
Proj00011-3UG-PAS	0.002794251	0.00285796	0.002923121	0.002989768	0.003057935	0.003127656	0.003198967	0.003271903	0.003346503
Proj00011-3UG-PAS	-1.213415504	-1.241081377	-1.269378033	-1.298319852	-1.327921545	-1.358198156	-1.389165074	-1.420838037	-1.453233145
Proj00011-3UG-UGAS	2.491720551	2.548531779	2.606638304	2.666069657	2.726856045	2.789028363	2.85261821	2.917657905	2.984180505
Proj00011-3UG-UGAS									
Proj00011-3UG-UGAS	0.002794251	0.00285796	0.002923121	0.002989768	0.003057935	0.003127656	0.003198967	0.003271903	0.003346503
Proj00011-3UG-UGAS	-1.213415504	-1.241081377	-1.269378033	-1.298319852	-1.327921545	-1.358198156	-1.389165074	-1.420838037	-1.453233145
Proj00012-3UG-ALT1									
Proj00012-3UG-ALT1	0.017891047	0.018298963	0.018716179	0.019142908	0.019579366	0.020025776	0.020482364	0.020949362	0.021427007
Proj00012-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00012-3UG-PAS									
Proj00012-3UG-PAS	0.007517667	0.007689069	0.00786438	0.008043688	0.008227084	0.008414662	0.008606516	0.008802744	0.009003447
Proj00012-3UG-PAS	-0.622500911	-0.636693932	-0.651210554	-0.666058154	-0.68124428	-0.69677665	-0.712663157	-0.728911877	-0.745531068
Proj00012-3UG-UGAS	0.940036835	0.961469675	0.983391184	1.005812503	1.028745028	1.052200415	1.076190584	1.100727729	1.125824322
Proj00012-3UG-UGAS									
Proj00012-3UG-UGAS	0.002537684	0.002595544	0.002654722	0.00271525	0.002777157	0.002840476	0.002905239	0.002971479	0.003039229
Proj00012-3UG-UGAS	-0.622500911	-0.636693932	-0.651210554	-0.666058154	-0.68124428	-0.69677665	-0.712663157	-0.728911877	-0.745531068
Proj00013-3UG-ALT1									
Proj00013-3UG-ALT1	0.028478112	0.029127413	0.029791518	0.030470764	0.031165498	0.031876071	0.032602845	0.03334619	0.034106483
Proj00013-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00013-3UG-PAS									
Proj00013-3UG-PAS	0.004948986	0.005061823	0.005177232	0.005295273	0.005416005	0.00553949	0.005665791	0.005794971	0.005927096
Proj00013-3UG-PAS	-1.066748224	-1.091070084	-1.115946482	-1.141390061	-1.167413755	-1.194030788	-1.22125469	-1.249099297	-1.277578761
Proj00013-3UG-UGAS	1.266842151	1.295726152	1.325268708	1.355484834	1.386389889	1.417999578	1.450329968	1.483397492	1.517218955
Proj00013-3UG-UGAS									
Proj00013-3UG-UGAS	0.004912097	0.005024093	0.005138642	0.005255803	0.005375636	0.0054982	0.005623559	0.005751776	0.005882917
Proj00013-3UG-UGAS	-1.066748224	-1.091070084	-1.115946482	-1.141390061	-1.167413755	-1.194030788	-1.22125469	-1.249099297	-1.277578761
Proj00014-3UG-ALT1									
Proj00014-3UG-ALT1	0.004647993	0.004753968	0.004862358	0.00497322	0.005086609	0.005202584	0.005321203	0.005442526	0.005566616
Proj00014-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00014-3UG-PAS									
Proj00014-3UG-PAS	0.000587774	0.000601175	0.000614882	0.000628901	0.00064324	0.000657906	0.000672906	0.000688248	0.00070394
Proj00014-3UG-PAS	-0.257943318	-0.263824425	-0.269839622	-0.275991966	-0.282284583	-0.288720671	-0.295303502	-0.302036422	-0.308922853
Proj00014-3UG-UGAS	0.298836709	0.305650186	0.31261901	0.319746723	0.327036949	0.334493391	0.34211984	0.349920173	0.357898353
Proj00014-3UG-UGAS									
Proj00014-3UG-UGAS	0.000587774	0.000601175	0.000614882	0.000628901	0.00064324	0.000657906	0.000672906	0.000688248	0.00070394
Proj00014-3UG-UGAS	-0.257943318	-0.263824425	-0.269839622	-0.275991966	-0.282284583	-0.288720671	-0.295303502	-0.302036422	-0.308922853
Proj00015-3UG-ALT1									
Proj00015-3UG-ALT1	0.084180137	0.086099444	0.088062511	0.090070336	0.09212394	0.094224366	0.096372681	0.098569978	0.100817374
Proj00015-3UG-ALT1	-0.042728405	-0.043702613	-0.044699032	-0.04571817	-0.046760545	-0.047826685	-0.048917134	-0.050032444	-0.051173184
Proj00015-3UG-PAS									
Proj00015-3UG-PAS	0.024931675	0.025500118	0.02608152	0.026676179	0.027284396	0.02790648	0.028542748	0.029193523	0.029859135
Proj00015-3UG-PAS	-1.442877558	-1.475775166	-1.50942284	-1.543837681	-1.57903718	-1.615039227	-1.651862122	-1.689524578	-1.728045739
Proj00015-3UG-UGAS	2.116630649	2.164889827	2.214249316	2.2647342	2.31637014	2.369183379	2.42320076	2.478449737	2.534958391
Proj00015-3UG-UGAS									
Proj00015-3UG-UGAS	0.011061504	0.011313706	0.011571659	0.011835493	0.012105342	0.012381344	0.012663638	0.012952369	0.013247683
Proj00015-3UG-UGAS	-1.442877558	-1.475775166	-1.50942284	-1.543837681	-1.57903718	-1.615039227	-1.651862122	-1.689524578	-1.728045739
Proj00016-3UG-ALT1									

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rru_id	annual_costs_in_year_14	annual_costs_in_year_15	annual_costs_in_year_16	annual_costs_in_year_17	annual_costs_in_year_18	annual_costs_in_year_19	annual_costs_in_year_20	annual_costs_in_year_21	annual_costs_in_year_22
Proj00016-3UG-ALT1	0.094804085	0.096965618	0.099176435	0.101437657	0.103750436	0.106115946	0.108535389	0.111009996	0.113541024
Proj00016-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00016-3UG-PAS									
Proj00016-3UG-PAS	0.090628001	0.09269432	0.09480775	0.096969367	0.099180268	0.101441578	0.103754446	0.106120048	0.108539585
Proj00016-3UG-PAS	-0.095481534	-0.097658513	-0.099885127	-0.102162508	-0.104491813	-0.106874226	-0.109310958	-0.111803248	-0.114352362
Proj00016-3UG-UGAS	2.21577075	2.266290323	2.317961743	2.37081127	2.424865767	2.480152707	2.536700189	2.594536953	2.653692395
Proj00016-3UG-UGAS									
Proj00016-3UG-UGAS	0.000988341	0.001010875	0.001033923	0.001057496	0.001081607	0.001106268	0.001131491	0.001157289	0.001183675
Proj00016-3UG-UGAS	-0.095481534	-0.097658513	-0.099885127	-0.102162508	-0.104491813	-0.106874226	-0.109310958	-0.111803248	-0.114352362
Proj00017-3UG-ALT1									
Proj00017-3UG-ALT1	0.026744334	0.027354104	0.027977778	0.028615671	0.029268109	0.029935421	0.030617949	0.031316038	0.032030044
Proj00017-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00017-3UG-PAS									
Proj00017-3UG-PAS	0.017680591	0.018083708	0.018496017	0.018917726	0.01934905	0.019790209	0.020241425	0.02070293	0.021174957
Proj00017-3UG-PAS	-0.452246968	-0.462558199	-0.473104526	-0.483891309	-0.494924031	-0.506208299	-0.517749848	-0.529554544	-0.541628388
Proj00017-3UG-UGAS	1.353630227	1.384492996	1.416059436	1.448345592	1.481367871	1.515143059	1.54968832	1.585021214	1.621159698
Proj00017-3UG-UGAS									
Proj00017-3UG-UGAS	0.001744657	0.001784435	0.00182512	0.001866733	0.001909295	0.001952826	0.001997351	0.002042891	0.002089468
Proj00017-3UG-UGAS	-0.452246968	-0.462558199	-0.473104526	-0.483891309	-0.494924031	-0.506208299	-0.517749848	-0.529554544	-0.541628388
Proj00018-3UG-ALT1									
Proj00018-3UG-ALT1	0.00866885	0.0088665	0.009068656	0.009275422	0.009486901	0.009703203	0.009924436	0.010150713	0.010382149
Proj00018-3UG-ALT1	-0.004010893	-0.004102342	-0.004195875	-0.004291541	-0.004389388	-0.004489466	-0.004591826	-0.00469652	-0.0048036
Proj00018-3UG-PAS									
Proj00018-3UG-PAS	0.001147555	0.001173719	0.00120048	0.001227851	0.001255846	0.001284479	0.001313765	0.001343719	0.001374356
Proj00018-3UG-PAS	-0.37377067	-0.382292641	-0.391008913	-0.399923916	-0.409042182	-0.418368343	-0.427907142	-0.437663424	-0.447642151
Proj00018-3UG-UGAS	0.504248916	0.515745791	0.527504795	0.539531905	0.551833232	0.56441503	0.577283693	0.590445761	0.603907924
Proj00018-3UG-UGAS									
Proj00018-3UG-UGAS	0.001147555	0.001173719	0.00120048	0.001227851	0.001255846	0.001284479	0.001313765	0.001343719	0.001374356
Proj00018-3UG-UGAS	-0.37377067	-0.382292641	-0.391008913	-0.399923916	-0.409042182	-0.418368343	-0.427907142	-0.437663424	-0.447642151
Proj00019-3UG-ALT1									
Proj00019-3UG-ALT1	0.031466108	0.032183535	0.032917319	0.033667834	0.034435461	0.035220589	0.036023619	0.036844957	0.037685022
Proj00019-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00019-3UG-PAS									
Proj00019-3UG-PAS	0.005233974	0.005353308	0.005475364	0.005600202	0.005727887	0.005858482	0.005992056	0.006128675	0.006268408
Proj00019-3UG-PAS	-1.467735235	-1.501199598	-1.535426949	-1.570434684	-1.606240595	-1.64286288	-1.680320154	-1.718631453	-1.75781625
Proj00019-3UG-UGAS	1.74408629	1.783851458	1.824523271	1.866122402	1.908669992	1.952187668	1.996697547	2.042222251	2.088784918
Proj00019-3UG-UGAS									
Proj00019-3UG-UGAS	0.005233974	0.005353308	0.005475364	0.005600202	0.005727887	0.005858482	0.005992056	0.006128675	0.006268408
Proj00019-3UG-UGAS	-1.467735235	-1.501199598	-1.535426949	-1.570434684	-1.606240595	-1.64286288	-1.680320154	-1.718631453	-1.75781625
Proj00020-3UG-ALT1									
Proj00020-3UG-ALT1	0.018075502	0.018487623	0.018909141	0.019340269	0.019781228	0.02023224	0.020693535	0.021165347	0.021647917
Proj00020-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00020-3UG-PAS									
Proj00020-3UG-PAS	0.00256101	0.002619401	0.002679124	0.002740208	0.002802684	0.002866586	0.002931944	0.002998792	0.003067164
Proj00020-3UG-PAS	-1.267183761	-1.296075551	-1.325626073	-1.355850348	-1.386763736	-1.418381949	-1.450721058	-1.483797498	-1.517628081
Proj00020-3UG-UGAS	1.39337261	1.425141505	1.457634731	1.490868803	1.524860612	1.559627434	1.595186939	1.631557202	1.668756706
Proj00020-3UG-UGAS									
Proj00020-3UG-UGAS	0.00256101	0.002619401	0.002679124	0.002740208	0.002802684	0.002866586	0.002931944	0.002998792	0.003067164
Proj00020-3UG-UGAS	-1.267183761	-1.296075551	-1.325626073	-1.355850348	-1.386763736	-1.418381949	-1.450721058	-1.483797498	-1.517628081
Proj00021-3UG-ALT1									
Proj00021-3UG-ALT1	0.073740612	0.075421898	0.077141517	0.078900343	0.080699271	0.082539215	0.084421109	0.08634591	0.088314597
Proj00021-3UG-ALT1	-0.016221912	-0.016591772	-0.016970064	-0.017356982	-0.017752721	-0.018157483	-0.018571474	-0.018994903	-0.019427987
Proj00021-3UG-PAS									
Proj00021-3UG-PAS	0.010915773	0.011164652	0.011419206	0.011679564	0.011945858	0.012218224	0.012496799	0.012781726	0.01307315
Proj00021-3UG-PAS	-1.862831829	-1.905304394	-1.948745335	-1.993176728	-2.038621158	-2.08510172	-2.132642039	-2.181266278	-2.230999149
Proj00021-3UG-UGAS	2.178232969	2.227896681	2.278692725	2.330646919	2.383785669	2.438135982	2.493725482	2.550582423	2.608735703
Proj00021-3UG-UGAS									
Proj00021-3UG-UGAS	0.010915773	0.011164652	0.011419206	0.011679564	0.011945858	0.012218224	0.012496799	0.012781726	0.01307315
Proj00021-3UG-UGAS	-1.862831829	-1.905304394	-1.948745335	-1.993176728	-2.038621158	-2.08510172	-2.132642039	-2.181266278	-2.230999149
Proj00022-3UG-ALT1									
Proj00022-3UG-ALT1	0.008890189	0.009092885	0.009300203	0.009512248	0.009729127	0.009950951	0.010177833	0.010409887	0.010647233
Proj00022-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00022-3UG-PAS									
Proj00022-3UG-PAS	0.00798792	0.008170045	0.008356322	0.008546846	0.008741714	0.008941025	0.00914488	0.009353384	0.009566641
Proj00022-3UG-PAS	-0.018898951	-0.019329847	-0.019770567	-0.020221336	-0.020682383	-0.021153941	-0.021636251	-0.022129557	-0.022634111
Proj00022-3UG-UGAS	0.20629418	0.210997687	0.215808434	0.220728867	0.225761485	0.230908847	0.236173568	0.241558326	0.247065855
Proj00022-3UG-UGAS									
Proj00022-3UG-UGAS	0.000130616	0.000133594	0.00013664	0.000139755	0.000142942	0.000146201	0.000149534	0.000152944	0.000156431
Proj00022-3UG-UGAS	-0.018898951	-0.019329847	-0.019770567	-0.020221336	-0.020682383	-0.021153941	-0.021636251	-0.022129557	-0.022634111
Proj00023-3UG-ALT1									
Proj00023-3UG-ALT1	0.091152112	0.09323038	0.095356033	0.09753015	0.099753838	0.102028225	0.104354469	0.106733751	0.10916728
Proj00023-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00023-3UG-PAS									
Proj00023-3UG-PAS	0.01631841	0.016690469	0.017071012	0.017460231	0.017858324	0.018265494	0.018681947	0.019107896	0.019543556
Proj00023-3UG-PAS	-4.102055944	-4.19558282	-4.291242108	-4.389082428	-4.489153507	-4.591506207	-4.696192549	-4.803265739	-4.912780198
Proj00023-3UG-UGAS	4.486014751	4.588295887	4.692909033	4.799907359	4.909345247	5.021278319	5.135763464	5.252858871	5.372624054
Proj00023-3UG-UGAS									
Proj00023-3UG-UGAS	0.015580634	0.015935873	0.016299211	0.016670833	0.017050928	0.017439689	0.017837314	0.018244005	0.018659968
Proj00023-3UG-UGAS	-4.102055944	-4.19558282	-4.291242108	-4.389082428	-4.489153507	-4.591506207	-4.696192549	-4.803265739	-4.912780198
Proj00024-3UG-ALT1									
Proj00024-3UG-ALT1	0.00420532	0.004301201	0.004399269	0.004499572	0.004602162	0.004707091	0.004814413	0.004924182	0.005036453

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rru_id	annual_costs_in_year_14	annual_costs_in_year_15	annual_costs_in_year_16	annual_costs_in_year_17	annual_costs_in_year_18	annual_costs_in_year_19	annual_costs_in_year_20	annual_costs_in_year_21	annual_costs_in_year_22
Proj00024-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00024-3UG-PAS									
Proj00024-3UG-PAS	0.000573778	0.00058686	0.000600241	0.000613926	0.000627924	0.00064224	0.000656883	0.00067186	0.000687179
Proj00024-3UG-PAS	-0.292536881	-0.299206722	-0.306028635	-0.313006088	-0.320142627	-0.327441879	-0.334907554	-0.342543446	-0.350353437
Proj00024-3UG-UGAS	0.328030137	0.335509224	0.343158835	0.350982856	0.358985265	0.367170129	0.375541608	0.384103957	0.392861527
Proj00024-3UG-UGAS									
Proj00024-3UG-UGAS	0.000573778	0.00058686	0.000600241	0.000613926	0.000627924	0.00064224	0.000656883	0.00067186	0.000687179
Proj00024-3UG-UGAS	-0.292536881	-0.299206722	-0.306028635	-0.313006088	-0.320142627	-0.327441879	-0.334907554	-0.342543446	-0.350353437
Proj00025-3UG-ALT1									
Proj00025-3UG-ALT1	0.010476416	0.010715278	0.010959587	0.011209465	0.011465041	0.011726444	0.011993807	0.012267266	0.012546959
Proj00025-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00025-3UG-PAS									
Proj00025-3UG-PAS	0.001670022	0.001708098	0.001747043	0.001786875	0.001827616	0.001869286	0.001911906	0.001955497	0.002000082
Proj00025-3UG-PAS	-0.624450071	-0.638687533	-0.653249608	-0.668143699	-0.683377376	-0.69895838	-0.714894631	-0.731194229	-0.747865457
Proj00025-3UG-UGAS	0.716532296	0.732869232	0.749578651	0.766669044	0.784149098	0.802027698	0.820313929	0.839017087	0.858146676
Proj00025-3UG-UGAS									
Proj00025-3UG-UGAS	0.001670022	0.001708098	0.001747043	0.001786875	0.001827616	0.001869286	0.001911906	0.001955497	0.002000082
Proj00025-3UG-UGAS	-0.624450071	-0.638687533	-0.653249608	-0.668143699	-0.683377376	-0.69895838	-0.714894631	-0.731194229	-0.747865457
Proj00026-3UG-ALT1									
Proj00026-3UG-ALT1	0.01250528	0.0127904	0.013082021	0.013380291	0.013685362	0.013997388	0.014316529	0.014642945	0.014976805
Proj00026-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00026-3UG-PAS									
Proj00026-3UG-PAS	0.001534738	0.00156973	0.00160552	0.001642126	0.001679566	0.00171786	0.001757028	0.001797088	0.001838062
Proj00026-3UG-PAS	-0.875158994	-0.895112619	-0.915521187	-0.93639507	-0.957744877	-0.979581461	-1.001915918	-1.024759601	-1.04812412
Proj00026-3UG-UGAS	0.960435326	0.982333252	1.00473045	1.027638304	1.051068457	1.075032818	1.099543566	1.12461316	1.15025434
Proj00026-3UG-UGAS									
Proj00026-3UG-UGAS	0.001534738	0.00156973	0.00160552	0.001642126	0.001679566	0.00171786	0.001757028	0.001797088	0.001838062
Proj00026-3UG-UGAS	-0.875158994	-0.895112619	-0.915521187	-0.93639507	-0.957744877	-0.979581461	-1.001915918	-1.024759601	-1.04812412
Proj00027-3UG-ALT1									
Proj00027-3UG-ALT1	0.004869307	0.004980327	0.005093878	0.005210019	0.005328807	0.005450304	0.005574571	0.005701671	0.005831669
Proj00027-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00027-3UG-PAS									
Proj00027-3UG-PAS	0.000611096	0.000625029	0.000639279	0.000653855	0.000668763	0.000684011	0.000699606	0.000715557	0.000731872
Proj00027-3UG-PAS	-0.285751764	-0.292266904	-0.298930589	-0.305746207	-0.31271722	-0.319847173	-0.327139688	-0.334598473	-0.342227319
Proj00027-3UG-UGAS	0.311613322	0.318718106	0.325984879	0.333417334	0.341019249	0.348794488	0.356747003	0.364880834	0.373200117
Proj00027-3UG-UGAS									
Proj00027-3UG-UGAS	0.000611096	0.000625029	0.000639279	0.000653855	0.000668763	0.000684011	0.000699606	0.000715557	0.000731872
Proj00027-3UG-UGAS	-0.285751764	-0.292266904	-0.298930589	-0.305746207	-0.31271722	-0.319847173	-0.327139688	-0.334598473	-0.342227319
Proj00028-3UG-ALT1									
Proj00028-3UG-ALT1	0.011804404	0.012073544	0.012348821	0.012630374	0.012918347	0.013212885	0.013514139	0.013822261	0.014137409
Proj00028-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00028-3UG-PAS									
Proj00028-3UG-PAS	0.003372362	0.003449252	0.003527895	0.003608331	0.003690601	0.003774747	0.003860811	0.003948837	0.004038871
Proj00028-3UG-PAS	-0.757873195	-0.775152704	-0.792826186	-0.810902623	-0.829391203	-0.848301322	-0.867642592	-0.887424843	-0.90765813
Proj00028-3UG-UGAS	1.008034707	1.031017899	1.054525107	1.078568279	1.103159636	1.128311675	1.154037182	1.180349229	1.207261192
Proj00028-3UG-UGAS									
Proj00028-3UG-UGAS	0.00134348	0.001374111	0.001405441	0.001437485	0.00147026	0.001503782	0.001538068	0.001573136	0.001609004
Proj00028-3UG-UGAS	-0.757873195	-0.775152704	-0.792826186	-0.810902623	-0.829391203	-0.848301322	-0.867642592	-0.887424843	-0.90765813

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rru_id	annual_costs_in_year_23	annual_costs_in_year_24	annual_costs_in_year_25	annual_costs_in_year_26	annual_costs_in_year_27	annual_costs_in_year_28	annual_costs_in_year_29	annual_costs_in_year_30	annual_costs_in_year_31
Proj00001-3UG-ALT1									
Proj00001-3UG-ALT1	0.013781924	0.014096151	0.014417544	0.014746264	0.015082478	0.015426359	0.01577808	0.01613782	0.016505763
Proj00001-3UG-ALT1	-0.056051493	-0.057329467	-0.058636579	-0.059973493	-0.061340888	-0.062739461	-0.06416992	-0.065632994	-0.067129427
Proj00001-3UG-PAS									
Proj00001-3UG-PAS	0.002074251	0.002121544	0.002169915	0.002219389	0.002269991	0.002321747	0.002374683	0.002428826	0.002484203
Proj00001-3UG-PAS	-1.832545796	-1.87432784	-1.917062515	-1.96077154	-2.005477131	-2.05120201	-2.097969416	-2.145803118	-2.194727429
Proj00001-3UG-UGAS	1.953064444	1.997594313	2.043139463	2.089723043	2.137368729	2.186100736	2.235943832	2.286923352	2.339065204
Proj00001-3UG-UGAS									
Proj00001-3UG-UGAS	0.002074251	0.002121544	0.002169915	0.002219389	0.002269991	0.002321747	0.002374683	0.002428826	0.002484203
Proj00001-3UG-UGAS	-1.832545796	-1.87432784	-1.917062515	-1.96077154	-2.005477131	-2.05120201	-2.097969416	-2.145803118	-2.194727429
Proj00002-3UG-ALT1									
Proj00002-3UG-ALT1	0.011612966	0.011877742	0.012148555	0.012425542	0.012708844	0.012998606	0.013294974	0.013598099	0.013908136
Proj00002-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00002-3UG-PAS									
Proj00002-3UG-PAS	0.001666287	0.001704278	0.001743136	0.001782879	0.001823529	0.001865106	0.00190763	0.001951124	0.00199561
Proj00002-3UG-PAS	-0.442416597	-0.452503695	-0.462820779	-0.473373093	-0.484166	-0.495204985	-0.506495658	-0.518043759	-0.529855157
Proj00002-3UG-UGAS	0.884847639	0.905022165	0.925656671	0.946761643	0.968347808	0.990426138	1.013007854	1.036104433	1.059727615
Proj00002-3UG-UGAS									
Proj00002-3UG-UGAS	0.001666287	0.001704278	0.001743136	0.001782879	0.001823529	0.001865106	0.00190763	0.001951124	0.00199561
Proj00002-3UG-UGAS	-0.442416597	-0.452503695	-0.462820779	-0.473373093	-0.484166	-0.495204985	-0.506495658	-0.518043759	-0.529855157
Proj00003-3UG-ALT1									
Proj00003-3UG-ALT1	0.037730882	0.038591146	0.039471024	0.040370964	0.041291422	0.042232866	0.043195775	0.044180639	0.045187958
Proj00003-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00003-3UG-PAS									
Proj00003-3UG-PAS	0.006582754	0.006732841	0.00688635	0.007043359	0.007203947	0.007368197	0.007536192	0.007708017	0.00788376
Proj00003-3UG-PAS	-2.199702358	-2.249855572	-2.301152279	-2.353618551	-2.407281054	-2.462167062	-2.518304471	-2.575721813	-2.63444827
Proj00003-3UG-UGAS	2.527274145	2.584895996	2.643831625	2.704110986	2.765764716	2.828824152	2.893321342	2.959289069	3.02676086
Proj00003-3UG-UGAS									
Proj00003-3UG-UGAS	0.006582754	0.006732841	0.00688635	0.007043359	0.007203947	0.007368197	0.007536192	0.007708017	0.00788376
Proj00003-3UG-UGAS	-2.199702358	-2.249855572	-2.301152279	-2.353618551	-2.407281054	-2.462167062	-2.518304471	-2.575721813	-2.63444827
Proj00004-3UG-ALT1									
Proj00004-3UG-ALT1	0.001943018	0.001987319	0.00203263	0.002078973	0.002126374	0.002174855	0.002224442	0.002275159	0.002327033
Proj00004-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00004-3UG-PAS									
Proj00004-3UG-PAS	0.00027428	0.000280534	0.00028693	0.000293472	0.000300163	0.000307007	0.000314006	0.000321166	0.000328488
Proj00004-3UG-PAS	-0.078884904	-0.08068348	-0.082523063	-0.084404589	-0.086329014	-0.088297315	-0.090310494	-0.092369573	-0.094475599
Proj00004-3UG-UGAS	0.089169969	0.091203044	0.093282474	0.095409314	0.097584647	0.099809577	0.102085235	0.104412778	0.10679339
Proj00004-3UG-UGAS									
Proj00004-3UG-UGAS	0.00027428	0.000280534	0.00028693	0.000293472	0.000300163	0.000307007	0.000314006	0.000321166	0.000328488
Proj00004-3UG-UGAS	-0.078884904	-0.08068348	-0.082523063	-0.084404589	-0.086329014	-0.088297315	-0.090310494	-0.092369573	-0.094475599
Proj00005-3UG-ALT1									
Proj00005-3UG-ALT1	0.025620836	0.026204991	0.026802465	0.027413561	0.02803859	0.02867787	0.029331726	0.030000489	0.0306845
Proj00005-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00005-3UG-PAS									
Proj00005-3UG-PAS	0.003765653	0.00385151	0.003939325	0.004029141	0.004121006	0.004214965	0.004311066	0.004409358	0.004509891
Proj00005-3UG-PAS	-2.015472388	-2.061425158	-2.108425652	-2.156497757	-2.205665905	-2.255955088	-2.307390864	-2.359999376	-2.413807362
Proj00005-3UG-UGAS	2.114330748	2.162537489	2.211843343	2.262273372	2.313853205	2.366609058	2.420567744	2.475756689	2.532203941
Proj00005-3UG-UGAS									
Proj00005-3UG-UGAS	0.003765653	0.00385151	0.003939325	0.004029141	0.004121006	0.004214965	0.004311066	0.004409358	0.004509891
Proj00005-3UG-UGAS	-2.015472388	-2.061425158	-2.108425652	-2.156497757	-2.205665905	-2.255955088	-2.307390864	-2.359999376	-2.413807362
Proj00006-3UG-ALT1									
Proj00006-3UG-ALT1	0.005557953	0.005684674	0.005814285	0.00594685	0.006082439	0.006221118	0.00636296	0.006508035	0.006656418
Proj00006-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00006-3UG-PAS									
Proj00006-3UG-PAS	0.0027715	0.00283469	0.002899321	0.002965425	0.003033037	0.00310219	0.00317292	0.003245263	0.003319255
Proj00006-3UG-PAS	-0.121191206	-0.123954365	-0.126780525	-0.129671121	-0.132627622	-0.135651532	-0.138744387	-0.141907759	-0.145143256
Proj00006-3UG-UGAS	0.234577413	0.239925778	0.245396086	0.250991116	0.256713714	0.262566786	0.268553309	0.274676325	0.280938945
Proj00006-3UG-UGAS									
Proj00006-3UG-UGAS	0.000331423	0.000338979	0.000346708	0.000354613	0.000362698	0.000370968	0.000379426	0.000388077	0.000396925
Proj00006-3UG-UGAS	-0.121191206	-0.123954365	-0.126780525	-0.129671121	-0.132627622	-0.135651532	-0.138744387	-0.141907759	-0.145143256
Proj00007-3UG-ALT1									
Proj00007-3UG-ALT1	0.037007911	0.037851691	0.03871471	0.039597405	0.040500226	0.041423631	0.04236809	0.043334083	0.0443221
Proj00007-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00007-3UG-PAS									
Proj00007-3UG-PAS	0.032377673	0.033115884	0.033870926	0.034643183	0.035433047	0.036240921	0.037067214	0.037912346	0.038776748
Proj00007-3UG-PAS	-0.10271415	-0.105056033	-0.107451311	-0.1099012	-0.112406948	-0.114969826	-0.117591138	-0.120272216	-0.123014423
Proj00007-3UG-UGAS	0.949842237	0.97149864	0.993648809	1.016304002	1.039475733	1.06317578	1.087416187	1.112209277	1.137567648
Proj00007-3UG-UGAS									
Proj00007-3UG-UGAS	0.000611419	0.00062536	0.000639618	0.000654201	0.000669117	0.000684373	0.000699976	0.000715936	0.000732259
Proj00007-3UG-UGAS	-0.10271415	-0.105056033	-0.107451311	-0.1099012	-0.112406948	-0.114969826	-0.117591138	-0.120272216	-0.123014423

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rru_id	annual_costs_in_year_23	annual_costs_in_year_24	annual_costs_in_year_25	annual_costs_in_year_26	annual_costs_in_year_27	annual_costs_in_year_28	annual_costs_in_year_29	annual_costs_in_year_30	annual_costs_in_year_31
Proj00008-3UG-ALT1									
Proj00008-3UG-ALT1	0.084363547	0.086287036	0.088254381	0.09026658	0.092324658	0.094429661	0.096582657	0.098784741	0.101037034
Proj00008-3UG-ALT1	-0.03511722	-0.035917892	-0.03673682	-0.03757442	-0.038431117	-0.039307346	-0.040203554	-0.041120195	-0.042057735
Proj00008-3UG-PAS									
Proj00008-3UG-PAS	0.053297876	0.054513067	0.055755965	0.057027201	0.058327421	0.059657287	0.061017473	0.062408671	0.063831589
Proj00008-3UG-PAS	-0.482653817	-0.493658324	-0.504913734	-0.516425767	-0.528200274	-0.54024324	-0.552560786	-0.565159172	-0.578044801
Proj00008-3UG-UGAS	1.559722335	1.595284004	1.631656479	1.668858247	1.706908215	1.745825722	1.785630549	1.826342925	1.867983544
Proj00008-3UG-UGAS									
Proj00008-3UG-UGAS	0.008517868	0.008712075	0.00891071	0.009113874	0.009321671	0.009534205	0.009751585	0.009973921	0.010201326
Proj00008-3UG-UGAS	-0.482653817	-0.493658324	-0.504913734	-0.516425767	-0.528200274	-0.54024324	-0.552560786	-0.565159172	-0.578044801
Proj00009-3UG-ALT1									
Proj00009-3UG-ALT1	0.031585478	0.032305627	0.033042196	0.033795558	0.034566096	0.035354203	0.036160279	0.036984733	0.037827985
Proj00009-3UG-ALT1	-0.018376503	-0.018795487	-0.019224024	-0.019662332	-0.020110633	-0.020569156	-0.021038132	-0.021517802	-0.022008408
Proj00009-3UG-PAS									
Proj00009-3UG-PAS	0.007044221	0.007204829	0.007369099	0.007537115	0.007708961	0.007884725	0.008064497	0.008248368	0.00843643
Proj00009-3UG-PAS	-1.759982571	-1.800110174	-1.841152686	-1.883130967	-1.926066353	-1.969980666	-2.014896225	-2.060835859	-2.107822917
Proj00009-3UG-UGAS	2.159680136	2.208920843	2.259284238	2.310795919	2.363482066	2.417369457	2.472485481	2.52885815	2.586516115
Proj00009-3UG-UGAS									
Proj00009-3UG-UGAS	0.004965634	0.005078851	0.005194649	0.005313087	0.005434225	0.005558125	0.005684851	0.005814465	0.005947035
Proj00009-3UG-UGAS	-1.759982571	-1.800110174	-1.841152686	-1.883130967	-1.926066353	-1.969980666	-2.014896225	-2.060835859	-2.107822917
Proj00010-3UG-ALT1									
Proj00010-3UG-ALT1	0.035335966	0.036141626	0.036965655	0.037808472	0.038670505	0.039552192	0.040453982	0.041376333	0.042319714
Proj00010-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00010-3UG-PAS									
Proj00010-3UG-PAS	0.009715865	0.009937387	0.010163959	0.010395698	0.01063272	0.010875146	0.011123099	0.011376706	0.011636094
Proj00010-3UG-PAS	-0.633808491	-0.648259324	-0.663039637	-0.67815694	-0.693618919	-0.70943343	-0.725608512	-0.742152386	-0.759073461
Proj00010-3UG-UGAS	0.990849601	1.013440972	1.036547426	1.060180708	1.084352828	1.109076072	1.134363007	1.160226483	1.186679647
Proj00010-3UG-UGAS									
Proj00010-3UG-UGAS	0.004474213	0.004576225	0.004680563	0.00478728	0.00489643	0.005008068	0.005122252	0.00523904	0.00535849
Proj00010-3UG-UGAS	-0.633808491	-0.648259324	-0.663039637	-0.67815694	-0.693618919	-0.70943343	-0.725608512	-0.742152386	-0.759073461
Proj00011-3UG-ALT1									
Proj00011-3UG-ALT1	0.02173479	0.022230343	0.022737195	0.023255603	0.023785831	0.024328148	0.024882829	0.025450158	0.026030422
Proj00011-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00011-3UG-PAS									
Proj00011-3UG-PAS	0.003422803	0.003500843	0.003580662	0.003662301	0.003745801	0.003831206	0.003918557	0.0040079	0.00409928
Proj00011-3UG-PAS	-1.48636686	-1.520256025	-1.554917862	-1.590369989	-1.626630425	-1.663717599	-1.70165036	-1.740447988	-1.780130203
Proj00011-3UG-UGAS	3.052219821	3.121810433	3.192987711	3.26578783	3.340247793	3.416405443	3.494299487	3.573969515	3.65545602
Proj00011-3UG-UGAS									
Proj00011-3UG-UGAS	0.003422803	0.003500843	0.003580662	0.003662301	0.003745801	0.003831206	0.003918557	0.0040079	0.00409928
Proj00011-3UG-UGAS	-1.48636686	-1.520256025	-1.554917862	-1.590369989	-1.626630425	-1.663717599	-1.70165036	-1.740447988	-1.780130203
Proj00012-3UG-ALT1									
Proj00012-3UG-ALT1	0.021915543	0.022415217	0.022926284	0.023449003	0.023983641	0.024530468	0.025089762	0.025661809	0.026246898
Proj00012-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00012-3UG-PAS									
Proj00012-3UG-PAS	0.009208726	0.009418684	0.009633431	0.009853073	0.010077723	0.010307495	0.010542506	0.010782875	0.011028724
Proj00012-3UG-PAS	-0.762529177	-0.779914842	-0.7976969	-0.81588439	-0.834486554	-0.853512847	-0.87297294	-0.892876723	-0.913234312
Proj00012-3UG-UGAS	1.151493116	1.177747159	1.204599794	1.23206467	1.260155744	1.288887295	1.318273925	1.348330571	1.379072508
Proj00012-3UG-UGAS									
Proj00012-3UG-UGAS	0.003108523	0.003179397	0.003251888	0.003326031	0.003401864	0.003479427	0.003558757	0.003639897	0.003722887
Proj00012-3UG-UGAS	-0.762529177	-0.779914842	-0.7976969	-0.81588439	-0.834486554	-0.853512847	-0.87297294	-0.892876723	-0.913234312
Proj00013-3UG-ALT1									
Proj00013-3UG-ALT1	0.034884111	0.035679469	0.036492961	0.037325	0.03817601	0.039046423	0.039936682	0.040847238	0.041778555
Proj00013-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00013-3UG-PAS									
Proj00013-3UG-PAS	0.006062234	0.006200453	0.006341823	0.006486417	0.006634307	0.00678569	0.00694028	0.007098519	0.007260365
Proj00013-3UG-PAS	-1.306707557	-1.336500489	-1.366972701	-1.398139678	-1.430017263	-1.462621656	-1.49596943	-1.530077533	-1.564963301
Proj00013-3UG-UGAS	1.551811547	1.58719285	1.623380847	1.66039393	1.698250912	1.736971033	1.776573972	1.817079859	1.85850928
Proj00013-3UG-UGAS									
Proj00013-3UG-UGAS	0.006017047	0.006154236	0.006294552	0.006438068	0.006584856	0.006734991	0.006888549	0.007045608	0.007206247
Proj00013-3UG-UGAS	-1.306707557	-1.336500489	-1.366972701	-1.398139678	-1.430017263	-1.462621656	-1.49596943	-1.530077533	-1.564963301
Proj00014-3UG-ALT1									
Proj00014-3UG-ALT1	0.005693535	0.005823347	0.00595612	0.006091919	0.006230815	0.006372877	0.006518179	0.006666794	0.006818796
Proj00014-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00014-3UG-PAS									
Proj00014-3UG-PAS	0.00071999	0.000736406	0.000753196	0.000770369	0.000787933	0.000805898	0.000824273	0.000843066	0.000862288
Proj00014-3UG-PAS	-0.315966294	-0.323170325	-0.330538609	-0.338074889	-0.345782996	-0.353666849	-0.361730453	-0.369977907	-0.378413403
Proj00014-3UG-UGAS	0.366058435	0.374404567	0.382940992	0.391672046	0.400602169	0.409735898	0.419077877	0.428632852	0.438405681
Proj00014-3UG-UGAS									
Proj00014-3UG-UGAS	0.00071999	0.000736406	0.000753196	0.000770369	0.000787933	0.000805898	0.000824273	0.000843066	0.000862288
Proj00014-3UG-UGAS	-0.315966294	-0.323170325	-0.330538609	-0.338074889	-0.345782996	-0.353666849	-0.361730453	-0.369977907	-0.378413403
Proj00015-3UG-ALT1									
Proj00015-3UG-ALT1	0.10311601	0.105467055	0.107871704	0.110331179	0.11284673	0.115419635	0.118051203	0.12074277	0.123495705
Proj00015-3UG-ALT1	-0.052339933	-0.053533283	-0.054753842	-0.056002229	-0.05727908	-0.058585043	-0.059920782	-0.061286976	-0.062684319
Proj00015-3UG-PAS									
Proj00015-3UG-PAS	0.030539923	0.031236233	0.03194842	0.032676843	0.033421875	0.034183894	0.034963287	0.03576045	0.036575788
Proj00015-3UG-PAS	-1.767445181	-1.807742931	-1.84895947	-1.891115746	-1.934233185	-1.978333702	-2.02343971	-2.069574136	-2.116760426
Proj00015-3UG-UGAS	2.592755443	2.651870267	2.712332909	2.774174099	2.837425269	2.902118565	2.968286868	3.035963808	3.105183783
Proj00015-3UG-UGAS									
Proj00015-3UG-UGAS	0.01354973	0.013858664	0.014174642	0.014497824	0.014828374	0.015166461	0.015512256	0.015865936	0.016227679
Proj00015-3UG-UGAS	-1.767445181	-1.807742931	-1.84895947	-1.891115746	-1.934233185	-1.978333702	-2.02343971	-2.069574136	-2.116760426
Proj00016-3UG-ALT1									

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rru_id	annual_costs_in_year_23	annual_costs_in_year_24	annual_costs_in_year_25	annual_costs_in_year_26	annual_costs_in_year_27	annual_costs_in_year_28	annual_costs_in_year_29	annual_costs_in_year_30	annual_costs_in_year_31
Proj00016-3UG-ALT1	0.11612976	0.118777518	0.121485645	0.124255518	0.127088544	0.129986163	0.132949847	0.135981104	0.139081473
Proj00016-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00016-3UG-PAS									
Proj00016-3UG-PAS	0.111014287	0.113545413	0.116134249	0.118782109	0.121490342	0.124260321	0.127093457	0.129991187	0.132954987
Proj00016-3UG-PAS	-0.116959596	-0.119626275	-0.122353754	-0.12514342	-0.12799669	-0.130915014	-0.133899876	-0.136952794	-0.140075317
Proj00016-3UG-UGAS	2.714196582	2.776080264	2.839374894	2.904112642	2.97032641	3.038049852	3.107317389	3.178164225	3.250626369
Proj00016-3UG-UGAS									
Proj00016-3UG-UGAS	0.001210663	0.001238266	0.001266498	0.001295374	0.001324909	0.001355117	0.001386014	0.001417615	0.001449936
Proj00016-3UG-UGAS	-0.116959596	-0.119626275	-0.122353754	-0.12514342	-0.12799669	-0.130915014	-0.133899876	-0.136952794	-0.140075317
Proj00017-3UG-ALT1									
Proj00017-3UG-ALT1	0.032760329	0.033507264	0.03427123	0.035052614	0.035851814	0.036669235	0.037505294	0.038360414	0.039235032
Proj00017-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00017-3UG-PAS									
Proj00017-3UG-PAS	0.021657746	0.022151542	0.022656597	0.023173168	0.023701516	0.024241911	0.024794626	0.025359944	0.02593815
Proj00017-3UG-PAS	-0.553977515	-0.566608202	-0.57952687	-0.592740082	-0.606254556	-0.62007716	-0.634214919	-0.648675019	-0.66346481
Proj00017-3UG-UGAS	1.658122139	1.695927323	1.734594466	1.77414322	1.814593686	1.855966422	1.898282456	1.941563296	1.985830939
Proj00017-3UG-UGAS									
Proj00017-3UG-UGAS	0.002137108	0.002185834	0.002235671	0.002286645	0.00233878	0.002392104	0.002446644	0.002502428	0.002559483
Proj00017-3UG-UGAS	-0.553977515	-0.566608202	-0.57952687	-0.592740082	-0.606254556	-0.62007716	-0.634214919	-0.648675019	-0.66346481
Proj00018-3UG-ALT1									
Proj00018-3UG-ALT1	0.010618862	0.010860972	0.011108602	0.011361879	0.011620929	0.011885887	0.012156885	0.012434062	0.012717558
Proj00018-3UG-ALT1	-0.004913122	-0.005025142	-0.005139715	-0.0052569	-0.005376758	-0.005499348	-0.005624733	-0.005752977	-0.005884145
Proj00018-3UG-PAS									
Proj00018-3UG-PAS	0.001405691	0.001437741	0.001470521	0.001504049	0.001538342	0.001573416	0.00160929	0.001645981	0.00168351
Proj00018-3UG-PAS	-0.457848392	-0.468287335	-0.478964286	-0.489884672	-0.501054042	-0.512478075	-0.524162575	-0.536113481	-0.548336869
Proj00018-3UG-UGAS	0.617677025	0.631760061	0.64616419	0.660896734	0.675965179	0.691377185	0.707140585	0.723263391	0.739753796
Proj00018-3UG-UGAS									
Proj00018-3UG-UGAS	0.001405691	0.001437741	0.001470521	0.001504049	0.001538342	0.001573416	0.00160929	0.001645981	0.00168351
Proj00018-3UG-UGAS	-0.457848392	-0.468287335	-0.478964286	-0.489884672	-0.501054042	-0.512478075	-0.524162575	-0.536113481	-0.548336869
Proj00019-3UG-ALT1									
Proj00019-3UG-ALT1	0.038544241	0.03942305	0.040321895	0.041241234	0.042181534	0.043143273	0.04412694	0.045133034	0.046162067
Proj00019-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00019-3UG-PAS									
Proj00019-3UG-PAS	0.006411328	0.006557506	0.006707018	0.006859938	0.007016344	0.007176317	0.007339937	0.007507287	0.007678453
Proj00019-3UG-PAS	-1.797894461	-1.838886455	-1.880813066	-1.923695604	-1.967555863	-2.012416137	-2.058299225	-2.105228447	-2.153227656
Proj00019-3UG-UGAS	2.136409215	2.185119345	2.234940066	2.285896699	2.338015144	2.391321889	2.445844028	2.501609272	2.558645964
Proj00019-3UG-UGAS									
Proj00019-3UG-UGAS	0.006411328	0.006557506	0.006707018	0.006859938	0.007016344	0.007176317	0.007339937	0.007507287	0.007678453
Proj00019-3UG-UGAS	-1.797894461	-1.838886455	-1.880813066	-1.923695604	-1.967555863	-2.012416137	-2.058299225	-2.105228447	-2.153227656
Proj00020-3UG-ALT1									
Proj00020-3UG-ALT1	0.02214149	0.022646316	0.023162652	0.02369076	0.024230909	0.024783374	0.025348435	0.025926379	0.026517501
Proj00020-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00020-3UG-PAS									
Proj00020-3UG-PAS	0.003137096	0.003208622	0.003281778	0.003356603	0.003433133	0.003511409	0.003591469	0.003673354	0.003757107
Proj00020-3UG-PAS	-1.552230001	-1.587620845	-1.6238186	-1.660841664	-1.698708854	-1.737439416	-1.777053035	-1.817569844	-1.859010436
Proj00020-3UG-UGAS	1.706804359	1.745719498	1.785521903	1.826231802	1.867869887	1.910457321	1.954015748	1.998567307	2.044134641
Proj00020-3UG-UGAS									
Proj00020-3UG-UGAS	0.003137096	0.003208622	0.003281778	0.003356603	0.003433133	0.003511409	0.003591469	0.003673354	0.003757107
Proj00020-3UG-UGAS	-1.552230001	-1.587620845	-1.6238186	-1.660841664	-1.698708854	-1.737439416	-1.777053035	-1.817569844	-1.859010436
Proj00021-3UG-ALT1									
Proj00021-3UG-ALT1	0.09032817	0.092387652	0.09449409	0.096648556	0.098852143	0.101105971	0.103411188	0.105768963	0.108180495
Proj00021-3UG-ALT1	-0.019870945	-0.020324003	-0.02078739	-0.021261342	-0.021746101	-0.022241912	-0.022749028	-0.023267706	-0.023798209
Proj00021-3UG-PAS									
Proj00021-3UG-PAS	0.013371218	0.013676081	0.013987896	0.01430682	0.014633015	0.014966648	0.015307888	0.015656908	0.016013885
Proj00021-3UG-PAS	-2.281865929	-2.333892473	-2.387105221	-2.44153122	-2.497198132	-2.554134249	-2.61236851	-2.671930512	-2.732850528
Proj00021-3UG-UGAS	2.668214877	2.729050176	2.79127252	2.854913533	2.920005562	2.986581689	3.054675751	3.124322358	3.195556908
Proj00021-3UG-UGAS									
Proj00021-3UG-UGAS	0.013371218	0.013676081	0.013987896	0.01430682	0.014633015	0.014966648	0.015307888	0.015656908	0.016013885
Proj00021-3UG-UGAS	-2.281865929	-2.333892473	-2.387105221	-2.44153122	-2.497198132	-2.554134249	-2.61236851	-2.671930512	-2.732850528
Proj00022-3UG-ALT1									
Proj00022-3UG-ALT1	0.01088999	0.011138281	0.011392234	0.011651977	0.011917642	0.012189365	0.012467282	0.012751536	0.013042271
Proj00022-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00022-3UG-PAS									
Proj00022-3UG-PAS	0.00978476	0.010007853	0.010236032	0.010469413	0.010708116	0.010952261	0.011201972	0.011457377	0.011718606
Proj00022-3UG-PAS	-0.023150169	-0.023677993	-0.024217851	-0.024770018	-0.025334774	-0.025912407	-0.02650321	-0.027107483	-0.027725534
Proj00022-3UG-UGAS	0.252698957	0.258460493	0.264353392	0.27038065	0.276545329	0.282850562	0.289299555	0.295895585	0.302642004
Proj00022-3UG-UGAS									
Proj00022-3UG-UGAS	0.000159997	0.000163645	0.000167377	0.000171193	0.000175096	0.000179088	0.000183171	0.000187348	0.000191619
Proj00022-3UG-UGAS	-0.023150169	-0.023677993	-0.024217851	-0.024770018	-0.025334774	-0.025912407	-0.02650321	-0.027107483	-0.027725534
Proj00023-3UG-ALT1									
Proj00023-3UG-ALT1	0.111656294	0.114202058	0.116805865	0.119469038	0.122192932	0.124978931	0.127828451	0.13074294	0.133723879
Proj00023-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00023-3UG-PAS									
Proj00023-3UG-PAS	0.019989149	0.020444901	0.020911045	0.021387817	0.021875459	0.02237422	0.022884352	0.023406115	0.023939775
Proj00023-3UG-PAS	-5.024791586	-5.139356835	-5.25653417	-5.376383149	-5.498964685	-5.62434108	-5.752576057	-5.883734791	-6.017883944
Proj00023-3UG-UGAS	5.495119882	5.620408615	5.748553932	5.879620961	6.013676319	6.150788139	6.291026109	6.434461504	6.581167226
Proj00023-3UG-UGAS									
Proj00023-3UG-UGAS	0.019085415	0.019520563	0.019965632	0.020420848	0.020886443	0.021362654	0.021849723	0.022347896	0.022857428
Proj00023-3UG-UGAS	-5.024791586	-5.139356835	-5.25653417	-5.376383149	-5.498964685	-5.62434108	-5.752576057	-5.883734791	-6.017883944
Proj00024-3UG-ALT1									
Proj00024-3UG-ALT1	0.005151284	0.005268733	0.005388861	0.005511727	0.005637394	0.005765927	0.00589739	0.00603185	0.006169376

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Electrical Undergrounding Program
SPD-37 Table 7: Annual Costs (Capital and O&M) and O&M Savings

rru_id	annual_costs_in_year_23	annual_costs_in_year_24	annual_costs_in_year_25	annual_costs_in_year_26	annual_costs_in_year_27	annual_costs_in_year_28	annual_costs_in_year_29	annual_costs_in_year_30	annual_costs_in_year_31
Proj00024-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00024-3UG-PAS									
Proj00024-3UG-PAS	0.000702846	0.000718871	0.000735262	0.000752026	0.000769172	0.000786709	0.000804646	0.000822992	0.000841756
Proj00024-3UG-PAS	-0.358341495	-0.366511681	-0.374868147	-0.383415141	-0.392157006	-0.401098186	-0.410243225	-0.41959677	-0.429163577
Proj00024-3UG-UGAS	0.40181877	0.410980238	0.420350587	0.429934581	0.439737089	0.449763095	0.460017693	0.470506097	0.481233636
Proj00024-3UG-UGAS									
Proj00024-3UG-UGAS	0.000702846	0.000718871	0.000735262	0.000752026	0.000769172	0.000786709	0.000804646	0.000822992	0.000841756
Proj00024-3UG-UGAS	-0.358341495	-0.366511681	-0.374868147	-0.383415141	-0.392157006	-0.401098186	-0.410243225	-0.41959677	-0.429163577
Proj00025-3UG-ALT1									
Proj00025-3UG-ALT1	0.01283303	0.013125623	0.013424887	0.013730975	0.014044041	0.014364245	0.01469175	0.015026722	0.015369331
Proj00025-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00025-3UG-PAS									
Proj00025-3UG-PAS	0.002045684	0.002092326	0.002140031	0.002188823	0.002238729	0.002289772	0.002341978	0.002395376	0.00244999
Proj00025-3UG-PAS	-0.764916789	-0.782356892	-0.800194629	-0.818439067	-0.837099478	-0.856185346	-0.875706372	-0.895672477	-0.916093809
Proj00025-3UG-UGAS	0.87771242	0.897724264	0.918192377	0.939127163	0.960539262	0.982439557	1.004839179	1.027749513	1.051182202
Proj00025-3UG-UGAS									
Proj00025-3UG-UGAS	0.002045684	0.002092326	0.002140031	0.002188823	0.002238729	0.002289772	0.002341978	0.002395376	0.00244999
Proj00025-3UG-UGAS	-0.764916789	-0.782356892	-0.800194629	-0.818439067	-0.837099478	-0.856185346	-0.875706372	-0.895672477	-0.916093809
Proj00026-3UG-ALT1									
Proj00026-3UG-ALT1	0.015318276	0.015667532	0.016024752	0.016390117	0.016763811	0.017146026	0.017536956	0.017936798	0.018345757
Proj00026-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00026-3UG-PAS									
Proj00026-3UG-PAS	0.001879969	0.001922833	0.001966673	0.002011513	0.002057376	0.002104284	0.002152262	0.002201333	0.002251524
Proj00026-3UG-PAS	-1.07202135	-1.096463436	-1.121462803	-1.147032155	-1.173184488	-1.199933094	-1.227291569	-1.255273816	-1.283894059
Proj00026-3UG-UGAS	1.176480139	1.203303886	1.230739214	1.258800068	1.28750071	1.316855726	1.346880037	1.377588902	1.408997929
Proj00026-3UG-UGAS									
Proj00026-3UG-UGAS	0.001879969	0.001922833	0.001966673	0.002011513	0.002057376	0.002104284	0.002152262	0.002201333	0.002251524
Proj00026-3UG-UGAS	-1.07202135	-1.096463436	-1.121462803	-1.147032155	-1.173184488	-1.199933094	-1.227291569	-1.255273816	-1.283894059
Proj00027-3UG-ALT1									
Proj00027-3UG-ALT1	0.005964631	0.006100625	0.006239719	0.006381985	0.006527494	0.006676321	0.006828541	0.006984232	0.007143472
Proj00027-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00027-3UG-PAS									
Proj00027-3UG-PAS	0.000748558	0.000765625	0.000783082	0.000800936	0.000819197	0.000837875	0.000856979	0.000876518	0.000896502
Proj00027-3UG-PAS	-0.350030101	-0.358010788	-0.366173434	-0.374522188	-0.383061294	-0.391795091	-0.400728019	-0.409864618	-0.419209532
Proj00027-3UG-UGAS	0.38170908	0.390412047	0.399313442	0.408417788	0.417729714	0.427253951	0.436995341	0.446958835	0.457149496
Proj00027-3UG-UGAS									
Proj00027-3UG-UGAS	0.000748558	0.000765625	0.000783082	0.000800936	0.000819197	0.000837875	0.000856979	0.000876518	0.000896502
Proj00027-3UG-UGAS	-0.350030101	-0.358010788	-0.366173434	-0.374522188	-0.383061294	-0.391795091	-0.400728019	-0.409864618	-0.419209532
Proj00028-3UG-ALT1									
Proj00028-3UG-ALT1	0.014459742	0.014789424	0.015126623	0.01547151	0.01582426	0.016185053	0.016554072	0.016931505	0.017317544
Proj00028-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00028-3UG-PAS									
Proj00028-3UG-PAS	0.004130957	0.004225143	0.004321476	0.004420006	0.004520782	0.004623856	0.00472928	0.004837107	0.004947393
Proj00028-3UG-PAS	-0.928352735	-0.949519178	-0.971168215	-0.99331085	-1.015958338	-1.039122188	-1.062814174	-1.087046337	-1.111830993
Proj00028-3UG-UGAS	1.234786747	1.262939885	1.291734914	1.32118647	1.351309522	1.382119379	1.413631701	1.445862504	1.478828169
Proj00028-3UG-UGAS									
Proj00028-3UG-UGAS	0.001645689	0.001683211	0.001721588	0.00176084	0.001800987	0.0018405	0.001884048	0.001927005	0.00197094
Proj00028-3UG-UGAS	-0.928352735	-0.949519178	-0.971168215	-0.99331085	-1.015958338	-1.039122188	-1.062814174	-1.087046337	-1.111830993

SPD-37
Pacific Gas and Electric Company
Electrical Undergrounding Program
SPD-37 Table 7: Annual Costs (Capital and O&M) and O&M Savings

rru_id	annual_costs_in_year_32	annual_costs_in_year_33	annual_costs_in_year_34	annual_costs_in_year_35	annual_costs_in_year_36	annual_costs_in_year_37	annual_costs_in_year_38	annual_costs_in_year_39	annual_costs_in_year_40
Proj00001-3UG-ALT1									
Proj00001-3UG-ALT1	0.016882094	0.017267006	0.017660693	0.018063357	0.018475202	0.018896436	0.019327275	0.019767937	0.020218646
Proj00001-3UG-ALT1	-0.068659978	-0.070225425	-0.071826565	-0.073464211	-0.075139195	-0.076852368	-0.078604602	-0.080396787	-0.082229834
Proj00001-3UG-PAS									
Proj00001-3UG-PAS	0.002540843	0.002598774	0.002658026	0.002718629	0.002780614	0.002844012	0.002908855	0.002975177	0.003043011
Proj00001-3UG-PAS	-2.244767215	-2.295947907	-2.34829552	-2.401836657	-2.456598533	-2.51260898	-2.569896465	-2.628490104	-2.688419678
Proj00001-3UG-UGAS	2.392395891	2.446942517	2.502732807	2.559795115	2.618158443	2.677852456	2.738907492	2.801354582	2.865225467
Proj00001-3UG-UGAS									
Proj00001-3UG-UGAS	0.002540843	0.002598774	0.002658026	0.002718629	0.002780614	0.002844012	0.002908855	0.002975177	0.003043011
Proj00001-3UG-UGAS	-2.244767215	-2.295947907	-2.34829552	-2.401836657	-2.456598533	-2.51260898	-2.569896465	-2.628490104	-2.688419678
Proj00002-3UG-ALT1									
Proj00002-3UG-ALT1	0.014225241	0.014549577	0.014881307	0.015220601	0.015567631	0.015922573	0.016285607	0.016656919	0.017036697
Proj00002-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00002-3UG-PAS									
Proj00002-3UG-PAS	0.002041109	0.002087647	0.002135245	0.002183929	0.002233722	0.002284651	0.002336741	0.002390019	0.002444511
Proj00002-3UG-PAS	-0.541935854	-0.554291992	-0.566929849	-0.57985585	-0.593076563	-0.606598709	-0.62042916	-0.634574944	-0.649043253
Proj00002-3UG-UGAS	1.083889404	1.108602083	1.13387821	1.159730633	1.186172492	1.213217225	1.240878577	1.269170609	1.298107699
Proj00002-3UG-UGAS									
Proj00002-3UG-UGAS	0.002041109	0.002087647	0.002135245	0.002183929	0.002233722	0.002284651	0.002336741	0.002390019	0.002444511
Proj00002-3UG-UGAS	-0.541935854	-0.554291992	-0.566929849	-0.57985585	-0.593076563	-0.606598709	-0.62042916	-0.634574944	-0.649043253
Proj00003-3UG-ALT1									
Proj00003-3UG-ALT1	0.046218243	0.047272019	0.048349821	0.049452197	0.050579707	0.051732924	0.052912435	0.054118839	0.055352748
Proj00003-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00003-3UG-PAS									
Proj00003-3UG-PAS	0.00806351	0.008247358	0.008435398	0.008627725	0.008824437	0.009025634	0.009231418	0.009441895	0.00965717
Proj00003-3UG-PAS	-2.694513691	-2.755948603	-2.818784231	-2.883052511	-2.948786109	-3.016018432	-3.084783652	-3.155116719	-3.227053381
Proj00003-3UG-UGAS	3.095771007	3.166354586	3.238547471	3.312386353	3.387908762	3.465153082	3.544158572	3.624965387	3.707614598
Proj00003-3UG-UGAS									
Proj00003-3UG-UGAS	0.00806351	0.008247358	0.008435398	0.008627725	0.008824437	0.009025634	0.009231418	0.009441895	0.00965717
Proj00003-3UG-UGAS	-2.694513691	-2.755948603	-2.818784231	-2.883052511	-2.948786109	-3.016018432	-3.084783652	-3.155116719	-3.227053381
Proj00004-3UG-ALT1									
Proj00004-3UG-ALT1	0.002380089	0.002434355	0.002489859	0.002546627	0.002604691	0.00266407	0.002724819	0.002786944	0.002850487
Proj00004-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00004-3UG-PAS									
Proj00004-3UG-PAS	0.000335978	0.000343638	0.000351473	0.000359487	0.000367683	0.000376066	0.000384641	0.00039341	0.00040238
Proj00004-3UG-PAS	-0.096629643	-0.098832799	-0.101086187	-0.103390952	-0.105748265	-0.108159326	-0.110625359	-0.113147617	-0.115727382
Proj00004-3UG-UGAS	0.109228279	0.111718684	0.11426587	0.116871132	0.119535793	0.122261209	0.125048765	0.127899877	0.130815994
Proj00004-3UG-UGAS									
Proj00004-3UG-UGAS	0.000335978	0.000343638	0.000351473	0.000359487	0.000367683	0.000376066	0.000384641	0.00039341	0.00040238
Proj00004-3UG-UGAS	-0.096629643	-0.098832799	-0.101086187	-0.103390952	-0.105748265	-0.108159326	-0.110625359	-0.113147617	-0.115727382
Proj00005-3UG-ALT1									
Proj00005-3UG-ALT1	0.031384107	0.032099664	0.032831537	0.033580096	0.034345722	0.035128804	0.035929741	0.036748939	0.037586815
Proj00005-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00005-3UG-PAS									
Proj00005-3UG-PAS	0.004612717	0.004717887	0.004825455	0.004935475	0.005048004	0.005163098	0.005280817	0.00540122	0.005524368
Proj00005-3UG-PAS	-2.468842169	-2.525131771	-2.582704775	-2.641590444	-2.701818706	-2.763420173	-2.826426153	-2.890868669	-2.956780475
Proj00005-3UG-UGAS	2.589938191	2.648988782	2.709385726	2.771159721	2.834342162	2.898965163	2.965061569	3.032664973	3.101809734
Proj00005-3UG-UGAS									
Proj00005-3UG-UGAS	0.004612717	0.004717887	0.004825455	0.004935475	0.005048004	0.005163098	0.005280817	0.00540122	0.005524368
Proj00005-3UG-UGAS	-2.468842169	-2.525131771	-2.582704775	-2.641590444	-2.701818706	-2.763420173	-2.826426153	-2.890868669	-2.956780475
Proj00006-3UG-ALT1									
Proj00006-3UG-ALT1	0.006808185	0.006963411	0.007122177	0.007284563	0.007450651	0.007620526	0.007794274	0.007971983	0.008153744
Proj00006-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00006-3UG-PAS									
Proj00006-3UG-PAS	0.003394934	0.003472338	0.003551508	0.003632482	0.003715303	0.003800011	0.003886652	0.003975267	0.004065903
Proj00006-3UG-PAS	-0.148452522	-0.15183724	-0.155299129	-0.158839949	-0.1624615	-0.166165622	-0.169954198	-0.173829154	-0.177792459
Proj00006-3UG-UGAS	0.287344353	0.293895804	0.300596628	0.307450231	0.314460097	0.321629787	0.328962946	0.336463301	0.344134664
Proj00006-3UG-UGAS									
Proj00006-3UG-UGAS	0.000405975	0.000415231	0.000424698	0.000434381	0.000444285	0.000454415	0.000464775	0.000475372	0.000486211
Proj00006-3UG-UGAS	-0.148452522	-0.15183724	-0.155299129	-0.158839949	-0.1624615	-0.166165622	-0.169954198	-0.173829154	-0.177792459
Proj00007-3UG-ALT1									
Proj00007-3UG-ALT1	0.045332644	0.046366228	0.047423378	0.048504631	0.049610536	0.050741657	0.051898566	0.053081854	0.05429212
Proj00007-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00007-3UG-PAS									
Proj00007-3UG-PAS	0.039660858	0.040565125	0.04149001	0.042435982	0.043403523	0.044393123	0.045405286	0.046440527	0.047499371
Proj00007-3UG-PAS	-0.125819152	-0.128687828	-0.131621911	-0.13462289	-0.137692292	-0.140831676	-0.144042639	-0.147326811	-0.150685862
Proj00007-3UG-UGAS	1.16350419	1.190032086	1.217164818	1.244916175	1.273300264	1.30233151	1.332024669	1.362394831	1.393457433
Proj00007-3UG-UGAS									
Proj00007-3UG-UGAS	0.000748955	0.000766031	0.000783496	0.00080136	0.000819631	0.000838319	0.000857432	0.000876982	0.000896977
Proj00007-3UG-UGAS	-0.125819152	-0.128687828	-0.131621911	-0.13462289	-0.137692292	-0.140831676	-0.144042639	-0.147326811	-0.150685862

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rru_id	annual_costs_in_year_32	annual_costs_in_year_33	annual_costs_in_year_34	annual_costs_in_year_35	annual_costs_in_year_36	annual_costs_in_year_37	annual_costs_in_year_38	annual_costs_in_year_39	annual_costs_in_year_40
Proj00008-3UG-ALT1									
Proj00008-3UG-ALT1	0.103340678	0.105696845	0.108106733	0.110571567	0.113092599	0.11567111	0.118308411	0.121005843	0.123764776
Proj00008-3UG-ALT1	-0.043016651	-0.043997431	-0.045000573	-0.046026586	-0.047075992	-0.048149324	-0.049247129	-0.050369963	-0.051518399
Proj00008-3UG-PAS									
Proj00008-3UG-PAS	0.065286949	0.066775491	0.068297973	0.069855166	0.071447864	0.073076876	0.074743028	0.076447169	0.078190165
Proj00008-3UG-PAS	-0.591224223	-0.604704135	-0.618491389	-0.632592993	-0.647016113	-0.661768081	-0.676856393	-0.692288719	-0.708072901
Proj00008-3UG-UGAS	1.910573569	1.954134646	1.998688916	2.044259023	2.090868129	2.138539922	2.187298633	2.237169042	2.288176496
Proj00008-3UG-UGAS									
Proj00008-3UG-UGAS	0.010433916	0.01067181	0.010915127	0.011163992	0.011418531	0.011678873	0.011945152	0.012217501	0.01249606
Proj00008-3UG-UGAS	-0.591224223	-0.604704135	-0.618491389	-0.632592993	-0.647016113	-0.661768081	-0.676856393	-0.692288719	-0.708072901
Proj00009-3UG-ALT1									
Proj00009-3UG-ALT1	0.038690463	0.039572606	0.040474861	0.041397688	0.042341556	0.043306943	0.044294341	0.045304252	0.046337189
Proj00009-3UG-ALT1	-0.022510199	-0.023023432	-0.023548366	-0.024085269	-0.024634413	-0.025196078	-0.025770548	-0.026358117	-0.026959082
Proj00009-3UG-PAS									
Proj00009-3UG-PAS	0.008628781	0.008825517	0.009026739	0.009232549	0.009443051	0.009658352	0.009878563	0.010103794	0.01033416
Proj00009-3UG-PAS	-2.155881279	-2.205035373	-2.255310179	-2.306731251	-2.359324724	-2.413117327	-2.468136402	-2.524409912	-2.581966458
Proj00009-3UG-UGAS	2.645488683	2.705805825	2.767498198	2.830597157	2.895134772	2.961143845	3.028657924	3.097711325	3.168339143
Proj00009-3UG-UGAS									
Proj00009-3UG-UGAS	0.006082627	0.006221311	0.006363157	0.006508237	0.006656625	0.006808396	0.006963627	0.007122398	0.007284789
Proj00009-3UG-UGAS	-2.155881279	-2.205035373	-2.255310179	-2.306731251	-2.359324724	-2.413117327	-2.468136402	-2.524409912	-2.581966458
Proj00010-3UG-ALT1									
Proj00010-3UG-ALT1	0.043284603	0.044271492	0.045280882	0.046313286	0.047369229	0.048449248	0.04955389	0.050683719	0.051839308
Proj00010-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00010-3UG-PAS									
Proj00010-3UG-PAS	0.011901397	0.012172749	0.012450288	0.012734154	0.013024493	0.013321452	0.013625181	0.013935835	0.014253572
Proj00010-3UG-PAS	-0.776380336	-0.794081807	-0.812186873	-0.830704733	-0.849644801	-0.869016703	-0.888830283	-0.909095614	-0.929822994
Proj00010-3UG-UGAS	1.213735943	1.241409123	1.269713251	1.298662713	1.328272222	1.358556829	1.389531925	1.421213253	1.453616915
Proj00010-3UG-UGAS									
Proj00010-3UG-UGAS	0.005480663	0.005605623	0.005733431	0.005864153	0.005997856	0.006134607	0.006274476	0.006417534	0.006563854
Proj00010-3UG-UGAS	-0.776380336	-0.794081807	-0.812186873	-0.830704733	-0.849644801	-0.869016703	-0.888830283	-0.909095614	-0.929822994
Proj00011-3UG-ALT1									
Proj00011-3UG-ALT1	0.026623915	0.02723094	0.027851806	0.028486827	0.029136327	0.029800635	0.030480089	0.031175035	0.031885826
Proj00011-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00011-3UG-PAS									
Proj00011-3UG-PAS	0.004192744	0.004288339	0.004386113	0.004486116	0.0045884	0.004693015	0.004800016	0.004909456	0.005021392
Proj00011-3UG-PAS	-1.820717171	-1.862229523	-1.904688356	-1.94811525	-1.992532278	-2.037962014	-2.084427548	-2.131952496	-2.180561013
Proj00011-3UG-UGAS	3.738800417	3.824045067	3.911233294	4.000409413	4.091618748	4.184907655	4.28032355	4.377914927	4.477731387
Proj00011-3UG-UGAS									
Proj00011-3UG-UGAS	0.004192744	0.004288339	0.004386113	0.004486116	0.0045884	0.004693015	0.004800016	0.004909456	0.005021392
Proj00011-3UG-UGAS	-1.820717171	-1.862229523	-1.904688356	-1.94811525	-1.992532278	-2.037962014	-2.084427548	-2.131952496	-2.180561013
Proj00012-3UG-ALT1									
Proj00012-3UG-ALT1	0.026845327	0.027457401	0.02808343	0.028723732	0.029378633	0.030048466	0.030733571	0.031434296	0.032150998
Proj00012-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00012-3UG-PAS									
Proj00012-3UG-PAS	0.011280179	0.011537367	0.011800419	0.012069469	0.012344653	0.012626111	0.012913986	0.013208425	0.013509577
Proj00012-3UG-PAS	-0.934056055	-0.955352533	-0.97713457	-0.999413239	-1.02219986	-1.045506017	-1.069343554	-1.093724587	-1.118661508
Proj00012-3UG-UGAS	1.410515361	1.442675111	1.475568104	1.509211057	1.543621069	1.578815629	1.614812625	1.651630353	1.689287525
Proj00012-3UG-UGAS									
Proj00012-3UG-UGAS	0.003807769	0.003894586	0.003983382	0.004074203	0.004167095	0.004262105	0.004359281	0.004458673	0.00456033
Proj00012-3UG-UGAS	-0.934056055	-0.955352533	-0.97713457	-0.999413239	-1.02219986	-1.045506017	-1.069343554	-1.093724587	-1.118661508
Proj00013-3UG-ALT1									
Proj00013-3UG-ALT1	0.042731106	0.043705375	0.044701858	0.04572106	0.046763501	0.047829708	0.048920226	0.050035607	0.051176419
Proj00013-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00013-3UG-PAS									
Proj00013-3UG-PAS	0.007425901	0.007595212	0.007768382	0.007945502	0.008126659	0.008311947	0.008501459	0.008695292	0.008893545
Proj00013-3UG-PAS	-1.600644464	-1.637139158	-1.674465931	-1.712643754	-1.751692032	-1.79163061	-1.832479788	-1.874260327	-1.916993462
Proj00013-3UG-UGAS	1.900883291	1.94422343	1.988551724	2.033890704	2.080263412	2.127693418	2.176204827	2.225822298	2.276571046
Proj00013-3UG-UGAS									
Proj00013-3UG-UGAS	0.00737055	0.007538598	0.007710478	0.007886277	0.008066084	0.008249991	0.008438091	0.008630479	0.008827254
Proj00013-3UG-UGAS	-1.600644464	-1.637139158	-1.674465931	-1.712643754	-1.751692032	-1.79163061	-1.832479788	-1.874260327	-1.916993462
Proj00014-3UG-ALT1									
Proj00014-3UG-ALT1	0.006974265	0.007133278	0.007295917	0.007462264	0.007632403	0.007806422	0.007984409	0.008166453	0.008352648
Proj00014-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00014-3UG-PAS									
Proj00014-3UG-PAS	0.000881948	0.000902057	0.000922624	0.000943659	0.000965175	0.000987181	0.001009689	0.001032709	0.001056255
Proj00014-3UG-PAS	-0.387041229	-0.395865769	-0.404891508	-0.414123035	-0.42356504	-0.433222323	-0.443099792	-0.453202467	-0.463535483
Proj00014-3UG-UGAS	0.448401331	0.458624881	0.469081529	0.479776587	0.490715494	0.501903807	0.513347214	0.52505153	0.537022705
Proj00014-3UG-UGAS									
Proj00014-3UG-UGAS	0.000881948	0.000902057	0.000922624	0.000943659	0.000965175	0.000987181	0.001009689	0.001032709	0.001056255
Proj00014-3UG-UGAS	-0.387041229	-0.395865769	-0.404891508	-0.414123035	-0.42356504	-0.433222323	-0.443099792	-0.453202467	-0.463535483
Proj00015-3UG-ALT1									
Proj00015-3UG-ALT1	0.126311408	0.129191308	0.132136869	0.13514959	0.138231001	0.141382668	0.144606192	0.147903214	0.151275407
Proj00015-3UG-ALT1	-0.064113522	-0.06557531	-0.067070427	-0.068599633	-0.070163704	-0.071763437	-0.073399643	-0.075073155	-0.076784823
Proj00015-3UG-PAS									
Proj00015-3UG-PAS	0.037409716	0.038262658	0.039135046	0.040027325	0.040939948	0.041873379	0.042828092	0.043804573	0.044803317
Proj00015-3UG-PAS	-2.165022564	-2.214385078	-2.264873058	-2.316512164	-2.369328641	-2.423349334	-2.478601699	-2.535113818	-2.592914413
Proj00015-3UG-UGAS	3.175981974	3.248394363	3.322457754	3.398209791	3.475688974	3.554934683	3.635987193	3.718887701	3.803678341
Proj00015-3UG-UGAS									
Proj00015-3UG-UGAS	0.01659767	0.016976097	0.017363152	0.017759032	0.018163938	0.018578076	0.019001656	0.019434893	0.019878009
Proj00015-3UG-UGAS	-2.165022564	-2.214385078	-2.264873058	-2.316512164	-2.369328641	-2.423349334	-2.478601699	-2.535113818	-2.592914413
Proj00016-3UG-ALT1									

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rru_id	annual_costs_in_year_32	annual_costs_in_year_33	annual_costs_in_year_34	annual_costs_in_year_35	annual_costs_in_year_36	annual_costs_in_year_37	annual_costs_in_year_38	annual_costs_in_year_39	annual_costs_in_year_40
Proj00016-3UG-ALT1	0.142252531	0.145495888	0.148813195	0.152206135	0.155676435	0.159225858	0.162856208	0.166569329	0.17036711
Proj00016-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00016-3UG-PAS									
Proj00016-3UG-PAS	0.13598636	0.139086849	0.142258029	0.145501512	0.148818947	0.152212019	0.155682453	0.159232013	0.162862503
Proj00016-3UG-PAS	-0.143269035	-0.146535569	-0.14987658	-0.153293766	-0.156788863	-0.16036365	-0.164019941	-0.167759595	-0.171584514
Proj00016-3UG-UGAS	3.324740651	3.400544737	3.478077158	3.557377317	3.63848552	3.721442989	3.80629189	3.893075345	3.981837462
Proj00016-3UG-UGAS									
Proj00016-3UG-UGAS	0.001482995	0.001516807	0.00155139	0.001586762	0.00162294	0.001659943	0.00169779	0.001736499	0.001776092
Proj00016-3UG-UGAS	-0.143269035	-0.146535569	-0.14987658	-0.153293766	-0.156788863	-0.16036365	-0.164019941	-0.167759595	-0.171584514
Proj00017-3UG-ALT1									
Proj00017-3UG-ALT1	0.040129591	0.041044545	0.041980361	0.042937513	0.043916488	0.044917784	0.04594191	0.046989385	0.048060743
Proj00017-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00017-3UG-PAS									
Proj00017-3UG-PAS	0.02652954	0.027134414	0.027753078	0.028385849	0.029033046	0.029694999	0.030372045	0.031064528	0.031772799
Proj00017-3UG-PAS	-0.678591807	-0.694063701	-0.709888353	-0.726073807	-0.74262829	-0.759560215	-0.776878188	-0.794591011	-0.812707686
Proj00017-3UG-UGAS	2.031107885	2.077417145	2.124782255	2.173227291	2.222776873	2.273456186	2.325290987	2.378307621	2.432533035
Proj00017-3UG-UGAS									
Proj00017-3UG-UGAS	0.002617839	0.002677526	0.002738574	0.002801013	0.002864876	0.002930196	0.002997004	0.003065336	0.003135225
Proj00017-3UG-UGAS	-0.678591807	-0.694063701	-0.709888353	-0.726073807	-0.74262829	-0.759560215	-0.776878188	-0.794591011	-0.812707686
Proj00018-3UG-ALT1									
Proj00018-3UG-ALT1	0.013007519	0.01330409	0.013607423	0.013917673	0.014234996	0.014559554	0.014891511	0.015231038	0.015578306
Proj00018-3UG-ALT1	-0.006018303	-0.00615552	-0.006295866	-0.006439412	-0.006586231	-0.006736397	-0.006889986	-0.007047078	-0.007207752
Proj00018-3UG-PAS									
Proj00018-3UG-PAS	0.001721894	0.001761153	0.001801307	0.001842377	0.001884383	0.001927347	0.001971291	0.002016236	0.002062206
Proj00018-3UG-PAS	-0.560838949	-0.573626077	-0.586704752	-0.60008162	-0.613763481	-0.627757289	-0.642070155	-0.656709354	-0.671682328
Proj00018-3UG-UGAS	0.756620182	0.773871123	0.791515384	0.809561935	0.828019947	0.846898802	0.866208095	0.885957639	0.906157473
Proj00018-3UG-UGAS									
Proj00018-3UG-UGAS	0.001721894	0.001761153	0.001801307	0.001842377	0.001884383	0.001927347	0.001971291	0.002016236	0.002062206
Proj00018-3UG-UGAS	-0.560838949	-0.573626077	-0.586704752	-0.60008162	-0.613763481	-0.627757289	-0.642070155	-0.656709354	-0.671682328
Proj00019-3UG-ALT1									
Proj00019-3UG-ALT1	0.047214563	0.048291055	0.049392091	0.05051823	0.051670046	0.052848123	0.05405306	0.05528547	0.056545979
Proj00019-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00019-3UG-PAS									
Proj00019-3UG-PAS	0.007853522	0.008032583	0.008215725	0.008403044	0.008594633	0.008790591	0.008991016	0.009196012	0.009405681
Proj00019-3UG-PAS	-2.202321247	-2.252534171	-2.30389195	-2.356420687	-2.410147078	-2.465098432	-2.521302676	-2.578788377	-2.637584752
Proj00019-3UG-UGAS	2.616983092	2.676650306	2.737677933	2.80009699	2.863939201	2.929237015	2.996023619	3.064332957	3.134199749
Proj00019-3UG-UGAS									
Proj00019-3UG-UGAS	0.007853522	0.008032583	0.008215725	0.008403044	0.008594633	0.008790591	0.008991016	0.009196012	0.009405681
Proj00019-3UG-UGAS	-2.202321247	-2.252534171	-2.30389195	-2.356420687	-2.410147078	-2.465098432	-2.521302676	-2.578788377	-2.637584752
Proj00020-3UG-ALT1									
Proj00020-3UG-ALT1	0.0271221	0.027740484	0.028372967	0.02901987	0.029681523	0.030358262	0.03105043	0.03175838	0.032482471
Proj00020-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00020-3UG-PAS									
Proj00020-3UG-PAS	0.003842769	0.003930384	0.004019997	0.004111653	0.004205398	0.004301281	0.004399351	0.004499656	0.004602248
Proj00020-3UG-PAS	-1.901395874	-1.9447477	-1.989087948	-2.034439153	-2.080824366	-2.128267161	-2.176791652	-2.226422502	-2.277184935
Proj00020-3UG-UGAS	2.090740911	2.138409804	2.187165547	2.237032922	2.288037272	2.340204522	2.393561185	2.44813438	2.503951844
Proj00020-3UG-UGAS									
Proj00020-3UG-UGAS	0.003842769	0.003930384	0.004019997	0.004111653	0.004205398	0.004301281	0.004399351	0.004499656	0.004602248
Proj00020-3UG-UGAS	-1.901395874	-1.9447477	-1.989087948	-2.034439153	-2.080824366	-2.128267161	-2.176791652	-2.226422502	-2.277184935
Proj00021-3UG-ALT1									
Proj00021-3UG-ALT1	0.11064701	0.113169762	0.115750033	0.118389133	0.121088406	0.123849221	0.126672984	0.129561128	0.132515121
Proj00021-3UG-ALT1	-0.024340808	-0.024895779	-0.025463403	-0.026043968	-0.026637771	-0.027245112	-0.0278663	-0.028501652	-0.02915149
Proj00021-3UG-PAS									
Proj00021-3UG-PAS	0.016379002	0.016752443	0.017134399	0.017525063	0.017924634	0.018333316	0.018751316	0.019178846	0.019616123
Proj00021-3UG-PAS	-2.79515952	-2.858889157	-2.92407183	-2.990740667	-3.058929555	-3.128673149	-3.200006896	-3.272967054	-3.347590702
Proj00021-3UG-UGAS	3.268415606	3.342935482	3.419154411	3.497111131	3.576845265	3.658397337	3.741808796	3.827122037	3.914380419
Proj00021-3UG-UGAS									
Proj00021-3UG-UGAS	0.016379002	0.016752443	0.017134399	0.017525063	0.017924634	0.018333316	0.018751316	0.019178846	0.019616123
Proj00021-3UG-UGAS	-2.79515952	-2.858889157	-2.92407183	-2.990740667	-3.058929555	-3.128673149	-3.200006896	-3.272967054	-3.347590702
Proj00022-3UG-ALT1									
Proj00022-3UG-ALT1	0.013339635	0.013643779	0.013954857	0.014273027	0.014598453	0.014931297	0.015271731	0.015619926	0.015976061
Proj00022-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00022-3UG-PAS									
Proj00022-3UG-PAS	0.01198579	0.012259066	0.012538573	0.012824452	0.01311685	0.013415914	0.013721797	0.014034654	0.014354644
Proj00022-3UG-PAS	-0.028357676	-0.029004231	-0.029665528	-0.030341902	-0.031033697	-0.031741265	-0.032464966	-0.033205167	-0.033962245
Proj00022-3UG-UGAS	0.309542242	0.316599805	0.32381828	0.331201337	0.338752728	0.34647629	0.354375949	0.362455721	0.370719711
Proj00022-3UG-UGAS									
Proj00022-3UG-UGAS	0.000195988	0.000200457	0.000205027	0.000209702	0.000214483	0.000219373	0.000224375	0.00022949	0.000234723
Proj00022-3UG-UGAS	-0.028357676	-0.029004231	-0.029665528	-0.030341902	-0.031033697	-0.031741265	-0.032464966	-0.033205167	-0.033962245
Proj00023-3UG-ALT1									
Proj00023-3UG-ALT1	0.136772783	0.139891203	0.143080722	0.146342962	0.149679582	0.153092276	0.15658278	0.160152868	0.163804353
Proj00023-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00023-3UG-PAS									
Proj00023-3UG-PAS	0.024485601	0.025043873	0.025614874	0.026198893	0.026796227	0.027407181	0.028032065	0.028671196	0.029324899
Proj00023-3UG-PAS	-6.155091698	-6.295427789	-6.438963542	-6.585771911	-6.735927511	-6.889506658	-7.04658741	-7.207249603	-7.371574893
Proj00023-3UG-UGAS	6.731217839	6.884689606	7.041660529	7.202210389	7.366420786	7.53437518	7.706158934	7.881859358	8.061565751
Proj00023-3UG-UGAS									
Proj00023-3UG-UGAS	0.023378578	0.023911609	0.024456794	0.025014409	0.025584737	0.026168069	0.026764701	0.027374937	0.027999085
Proj00023-3UG-UGAS	-6.155091698	-6.295427789	-6.438963542	-6.585771911	-6.735927511	-6.889506658	-7.04658741	-7.207249603	-7.371574893
Proj00024-3UG-ALT1									
Proj00024-3UG-ALT1	0.006310038	0.006453907	0.006601056	0.00675156	0.006905496	0.007062941	0.007223976	0.007388683	0.007557145

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rru_id	annual_costs_in_year_32	annual_costs_in_year_33	annual_costs_in_year_34	annual_costs_in_year_35	annual_costs_in_year_36	annual_costs_in_year_37	annual_costs_in_year_38	annual_costs_in_year_39	annual_costs_in_year_40
Proj00024-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00024-3UG-PAS									
Proj00024-3UG-PAS	0.000860948	0.000880578	0.000900655	0.00092119	0.000942193	0.000963675	0.000985647	0.001008119	0.001031104
Proj00024-3UG-PAS	-0.438948506	-0.448956532	-0.459192741	-0.469662336	-0.480370637	-0.491323087	-0.502525254	-0.51398283	-0.525701638
Proj00024-3UG-UGAS	0.492205762	0.503428054	0.514906214	0.526646075	0.538653606	0.550934908	0.563496224	0.576343938	0.589484579
Proj00024-3UG-UGAS									
Proj00024-3UG-UGAS	0.000860948	0.000880578	0.000900655	0.00092119	0.000942193	0.000963675	0.000985647	0.001008119	0.001031104
Proj00024-3UG-UGAS	-0.438948506	-0.448956532	-0.459192741	-0.469662336	-0.480370637	-0.491323087	-0.502525254	-0.51398283	-0.525701638
Proj00025-3UG-ALT1									
Proj00025-3UG-ALT1	0.015719752	0.016078162	0.016444744	0.016819685	0.017203173	0.017595406	0.017996581	0.018406903	0.01882658
Proj00025-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00025-3UG-PAS									
Proj00025-3UG-PAS	0.00250585	0.002562983	0.002621419	0.002681188	0.002742319	0.002804844	0.002868794	0.002934203	0.003001102
Proj00025-3UG-PAS	-0.936980748	-0.958343909	-0.98019415	-1.002542577	-1.025400548	-1.04877968	-1.072691857	-1.097149231	-1.122164234
Proj00025-3UG-UGAS	1.075149156	1.099662557	1.124734863	1.150378818	1.176607455	1.203434105	1.230872402	1.258936293	1.287640041
Proj00025-3UG-UGAS									
Proj00025-3UG-UGAS	0.00250585	0.002562983	0.002621419	0.002681188	0.002742319	0.002804844	0.002868794	0.002934203	0.003001102
Proj00025-3UG-UGAS	-0.936980748	-0.958343909	-0.98019415	-1.002542577	-1.025400548	-1.04877968	-1.072691857	-1.097149231	-1.122164234
Proj00026-3UG-ALT1									
Proj00026-3UG-ALT1	0.01876404	0.01919186	0.019629435	0.020076986	0.020534741	0.021002933	0.0214818	0.021971585	0.022472537
Proj00026-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00026-3UG-PAS									
Proj00026-3UG-PAS	0.002302858	0.002355364	0.002409066	0.002463993	0.002520172	0.002577632	0.002636402	0.002696511	0.002757992
Proj00026-3UG-PAS	-1.313166844	-1.343107048	-1.373729889	-1.40505093	-1.437086091	-1.469851654	-1.503364272	-1.537640977	-1.572699192
Proj00026-3UG-UGAS	1.441123081	1.473980688	1.507587447	1.541960441	1.577117139	1.61307541	1.649853529	1.68747019	1.72594451
Proj00026-3UG-UGAS									
Proj00026-3UG-UGAS	0.002302858	0.002355364	0.002409066	0.002463993	0.002520172	0.002577632	0.002636402	0.002696511	0.002757992
Proj00026-3UG-UGAS	-1.313166844	-1.343107048	-1.373729889	-1.40505093	-1.437086091	-1.469851654	-1.503364272	-1.537640977	-1.572699192
Proj00027-3UG-ALT1									
Proj00027-3UG-ALT1	0.007306344	0.007472928	0.007643311	0.007817578	0.007995819	0.008178124	0.008364585	0.008555298	0.008750358
Proj00027-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00027-3UG-PAS									
Proj00027-3UG-PAS	0.000916943	0.000937849	0.000959232	0.000981102	0.001003471	0.001026351	0.001049751	0.001073686	0.001098166
Proj00027-3UG-PAS	-0.428767509	-0.438543408	-0.448542198	-0.45876896	-0.469228892	-0.479927311	-0.490869654	-0.502061482	-0.513508484
Proj00027-3UG-UGAS	0.467572505	0.478233158	0.489136874	0.500289195	0.511695788	0.523362452	0.535295116	0.547499845	0.559982842
Proj00027-3UG-UGAS									
Proj00027-3UG-UGAS	0.000916943	0.000937849	0.000959232	0.000981102	0.001003471	0.001026351	0.001049751	0.001073686	0.001098166
Proj00027-3UG-UGAS	-0.428767509	-0.438543408	-0.448542198	-0.45876896	-0.469228892	-0.479927311	-0.490869654	-0.502061482	-0.513508484
Proj00028-3UG-ALT1									
Proj00028-3UG-ALT1	0.017712384	0.018116226	0.018529276	0.018951743	0.019383843	0.019825795	0.020277823	0.020740157	0.021213033
Proj00028-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00028-3UG-PAS									
Proj00028-3UG-PAS	0.005060194	0.005175566	0.005293569	0.005414262	0.005537708	0.005663967	0.005793106	0.005925189	0.006060283
Proj00028-3UG-PAS	-1.13718074	-1.163108461	-1.189627334	-1.216750837	-1.244492756	-1.272867191	-1.301888563	-1.331571622	-1.361931455
Proj00028-3UG-UGAS	1.512545451	1.547031487	1.582303805	1.618380332	1.655279403	1.693019774	1.731620625	1.771101575	1.811482691
Proj00028-3UG-UGAS									
Proj00028-3UG-UGAS	0.002015878	0.00206184	0.00210885	0.002156932	0.00220611	0.002256409	0.002307855	0.002360474	0.002414293
Proj00028-3UG-UGAS	-1.13718074	-1.163108461	-1.189627334	-1.216750837	-1.244492756	-1.272867191	-1.301888563	-1.331571622	-1.361931455

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Pacific Gas and Electric Company
Electrical Undergrounding Program
SPD-37 Table 7: Annual Costs (Capital and O&M) and O&M Savings

rru_id	annual_costs_in_year_41	annual_costs_in_year_42	annual_costs_in_year_43	annual_costs_in_year_44	annual_costs_in_year_45	annual_costs_in_year_46	annual_costs_in_year_47	annual_costs_in_year_48	annual_costs_in_year_49
Proj00001-3UG-ALT1									
Proj00001-3UG-ALT1	0.020679631	0.021151127	0.021633372	0.022126613	0.0226311	0.023147089	0.023674843	0.024214629	0.024766723
Proj00001-3UG-ALT1	-0.084104674	-0.086022261	-0.087983568	-0.089989594	-0.092041356	-0.094139899	-0.096286289	-0.098481616	-0.100726997
Proj00001-3UG-PAS									
Proj00001-3UG-PAS	0.003112392	0.003183354	0.003255935	0.00333017	0.003406098	0.003483757	0.003563187	0.003644427	0.00372752
Proj00001-3UG-PAS	-2.749715647	-2.812409164	-2.876532093	-2.942117024	-3.009197292	-3.077806991	-3.14798099	-3.219754957	-3.29316537
Proj00001-3UG-UGAS	2.930552608	2.997369207	3.065709225	3.135607395	3.207099244	3.280221107	3.355010148	3.431504379	3.509742679
Proj00001-3UG-UGAS									
Proj00001-3UG-UGAS	0.003112392	0.003183354	0.003255935	0.00333017	0.003406098	0.003483757	0.003563187	0.003644427	0.00372752
Proj00001-3UG-UGAS	-2.749715647	-2.812409164	-2.876532093	-2.942117024	-3.009197292	-3.077806991	-3.14798099	-3.219754957	-3.29316537
Proj00002-3UG-ALT1									
Proj00002-3UG-ALT1	0.017425134	0.017822427	0.018228778	0.018644394	0.019069486	0.019504271	0.019948968	0.020403805	0.020869011
Proj00002-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00002-3UG-PAS									
Proj00002-3UG-PAS	0.002500246	0.002557252	0.002615557	0.002675192	0.002736186	0.002798571	0.002862379	0.002927641	0.002994391
Proj00002-3UG-PAS	-0.663841439	-0.678977024	-0.6944577	-0.710291336	-0.726485978	-0.743049859	-0.759991395	-0.777319199	-0.795042077
Proj00002-3UG-UGAS	1.327704554	1.357976218	1.388938076	1.420605864	1.452995678	1.486123979	1.520007606	1.554663779	1.590110113
Proj00002-3UG-UGAS									
Proj00002-3UG-UGAS	0.002500246	0.002557252	0.002615557	0.002675192	0.002736186	0.002798571	0.002862379	0.002927641	0.002994391
Proj00002-3UG-UGAS	-0.663841439	-0.678977024	-0.6944577	-0.710291336	-0.726485978	-0.743049859	-0.759991395	-0.777319199	-0.795042077
Proj00003-3UG-ALT1									
Proj00003-3UG-ALT1	0.056614791	0.057905608	0.059225856	0.060576205	0.061957343	0.06336997	0.064814805	0.066292583	0.067804054
Proj00003-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00003-3UG-PAS									
Proj00003-3UG-PAS	0.009877353	0.010102557	0.010332895	0.010568485	0.010809447	0.011055902	0.011307977	0.011565799	0.011829499
Proj00003-3UG-PAS	-3.300630198	-3.375884566	-3.452854734	-3.531579822	-3.612099842	-3.694455719	-3.778689309	-3.864843425	-3.952961855
Proj00003-3UG-UGAS	3.792148211	3.87860919	3.96704148	4.057490026	4.150000798	4.244620816	4.341398171	4.440382049	4.54162276
Proj00003-3UG-UGAS									
Proj00003-3UG-UGAS	0.009877353	0.010102557	0.010332895	0.010568485	0.010809447	0.011055902	0.011307977	0.011565799	0.011829499
Proj00003-3UG-UGAS	-3.300630198	-3.375884566	-3.452854734	-3.531579822	-3.612099842	-3.694455719	-3.778689309	-3.864843425	-3.952961855
Proj00004-3UG-ALT1									
Proj00004-3UG-ALT1	0.002915478	0.002981951	0.003049939	0.003119478	0.003190602	0.003263348	0.003337752	0.003413853	0.003491689
Proj00004-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00004-3UG-PAS									
Proj00004-3UG-PAS	0.000411554	0.000420938	0.000430535	0.000440351	0.000450391	0.00046066	0.000471163	0.000481906	0.000492893
Proj00004-3UG-PAS	-0.118365967	-0.121064711	-0.123824986	-0.126648196	-0.129535775	-0.13248919	-0.135509944	-0.138599571	-0.141759641
Proj00004-3UG-UGAS	0.133798599	0.136849207	0.139969369	0.14316067	0.146424734	0.149763217	0.153177819	0.156670273	0.160242355
Proj00004-3UG-UGAS									
Proj00004-3UG-UGAS	0.000411554	0.000420938	0.000430535	0.000440351	0.000450391	0.00046066	0.000471163	0.000481906	0.000492893
Proj00004-3UG-UGAS	-0.118365967	-0.121064711	-0.123824986	-0.126648196	-0.129535775	-0.13248919	-0.135509944	-0.138599571	-0.141759641
Proj00005-3UG-ALT1									
Proj00005-3UG-ALT1	0.038443794	0.039320313	0.040216816	0.041133759	0.042071609	0.043030842	0.044011945	0.045015417	0.046041769
Proj00005-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00005-3UG-PAS									
Proj00005-3UG-PAS	0.005650323	0.00577915	0.005910915	0.006045684	0.006183526	0.00632451	0.006468709	0.006616195	0.006767045
Proj00005-3UG-PAS	-3.024195069	-3.093146717	-3.163670462	-3.235802149	-3.309578438	-3.385036826	-3.462215666	-3.541154183	-3.621892498
Proj00005-3UG-UGAS	3.172530996	3.244864703	3.318847618	3.394517344	3.471912339	3.551071941	3.632036381	3.71484681	3.799545318
Proj00005-3UG-UGAS									
Proj00005-3UG-UGAS	0.005650323	0.00577915	0.005910915	0.006045684	0.006183526	0.00632451	0.006468709	0.006616195	0.006767045
Proj00005-3UG-UGAS	-3.024195069	-3.093146717	-3.163670462	-3.235802149	-3.309578438	-3.385036826	-3.462215666	-3.541154183	-3.621892498
Proj00006-3UG-ALT1									
Proj00006-3UG-ALT1	0.00833965	0.008529794	0.008724273	0.008923186	0.009126635	0.009334722	0.009547554	0.009765238	0.009987886
Proj00006-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00006-3UG-PAS									
Proj00006-3UG-PAS	0.004158606	0.004253422	0.0043504	0.004449589	0.00455104	0.004654804	0.004760933	0.004869483	0.004980507
Proj00006-3UG-PAS	-0.181846127	-0.185992218	-0.190232841	-0.19457015	-0.199006349	-0.203543694	-0.20818449	-0.212931096	-0.217785925
Proj00006-3UG-UGAS	0.351980935	0.3600061	0.368214239	0.376609524	0.385196221	0.393978695	0.402961409	0.412148929	0.421545925
Proj00006-3UG-UGAS									
Proj00006-3UG-UGAS	0.000497296	0.000508635	0.000520232	0.000532093	0.000544225	0.000556633	0.000569324	0.000582305	0.000595581
Proj00006-3UG-UGAS	-0.181846127	-0.185992218	-0.190232841	-0.19457015	-0.199006349	-0.203543694	-0.20818449	-0.212931096	-0.217785925
Proj00007-3UG-ALT1									
Proj00007-3UG-ALT1	0.05552998	0.056796064	0.058091014	0.059415489	0.060770163	0.062155722	0.063572873	0.065022334	0.066504843
Proj00007-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00007-3UG-PAS									
Proj00007-3UG-PAS	0.048582356	0.049690034	0.050822967	0.051981731	0.053166914	0.05437912	0.055618964	0.056887076	0.058184101
Proj00007-3UG-PAS	-0.1541215	-0.15763547	-0.161229559	-0.164905593	-0.16866544	-0.172511012	-0.176444263	-0.180467192	-0.184581844
Proj00007-3UG-UGAS	1.425228263	1.457723467	1.490959562	1.52495344	1.559722379	1.595284049	1.631656525	1.668858294	1.706908263
Proj00007-3UG-UGAS									
Proj00007-3UG-UGAS	0.000917428	0.000938346	0.00095974	0.000981622	0.001004003	0.001026894	0.001050307	0.001074254	0.001098747
Proj00007-3UG-UGAS	-0.1541215	-0.15763547	-0.161229559	-0.164905593	-0.16866544	-0.172511012	-0.176444263	-0.180467192	-0.184581844

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rru_id	annual_costs_in_year_41	annual_costs_in_year_42	annual_costs_in_year_43	annual_costs_in_year_44	annual_costs_in_year_45	annual_costs_in_year_46	annual_costs_in_year_47	annual_costs_in_year_48	annual_costs_in_year_49
Proj00008-3UG-ALT1									
Proj00008-3UG-ALT1	0.126586613	0.129472788	0.132424768	0.135444052	0.138532177	0.14169071	0.144921258	0.148225463	0.151605004
Proj00008-3UG-ALT1	-0.052693018	-0.053894419	-0.055123212	-0.056380021	-0.057665485	-0.058980258	-0.060325008	-0.061700419	-0.063107188
Proj00008-3UG-PAS									
Proj00008-3UG-PAS	0.079972901	0.081796283	0.083661238	0.085568714	0.087519681	0.08951513	0.091556075	0.093643553	0.095778626
Proj00008-3UG-PAS	-0.724216964	-0.74072911	-0.757617734	-0.774891418	-0.792558943	-0.810629287	-0.829111634	-0.84801538	-0.86735013
Proj00008-3UG-UGAS	2.34034692	2.39370683	2.448283345	2.504104206	2.561197781	2.619593091	2.679319813	2.740408305	2.802889614
Proj00008-3UG-UGAS									
Proj00008-3UG-UGAS	0.01278097	0.013072377	0.013370427	0.013675272	0.013987069	0.014305974	0.01463215	0.014965763	0.015306982
Proj00008-3UG-UGAS	-0.724216964	-0.74072911	-0.757617734	-0.774891418	-0.792558943	-0.810629287	-0.829111634	-0.84801538	-0.86735013
Proj00009-3UG-ALT1									
Proj00009-3UG-ALT1	0.047393677	0.048474253	0.049579466	0.050709878	0.051866063	0.053048609	0.054258118	0.055495203	0.056760493
Proj00009-3UG-ALT1	-0.027573749	-0.02820243	-0.028845446	-0.029503122	-0.030175793	-0.030863801	-0.031567496	-0.032287235	-0.033023384
Proj00009-3UG-PAS									
Proj00009-3UG-PAS	0.010569779	0.01081077	0.011057256	0.011309361	0.011567215	0.011830947	0.012100693	0.012376589	0.012658775
Proj00009-3UG-PAS	-2.640835294	-2.701046338	-2.762630195	-2.825618163	-2.890042257	-2.955935221	-3.023330544	-3.09226248	-3.162766065
Proj00009-3UG-UGAS	3.240577276	3.314462437	3.390032181	3.467324915	3.546379923	3.627237385	3.709938397	3.794524993	3.881040163
Proj00009-3UG-UGAS									
Proj00009-3UG-UGAS	0.007450882	0.007620762	0.007794516	0.00797223	0.008153997	0.008339908	0.008530058	0.008724544	0.008923463
Proj00009-3UG-UGAS	-2.640835294	-2.701046338	-2.762630195	-2.825618163	-2.890042257	-2.955935221	-3.023330544	-3.09226248	-3.162766065
Proj00010-3UG-ALT1									
Proj00010-3UG-ALT1	0.053021244	0.054230128	0.055466575	0.056731213	0.058024685	0.059347648	0.060700774	0.062084752	0.063500284
Proj00010-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00010-3UG-PAS									
Proj00010-3UG-PAS	0.014578553	0.014910944	0.015250914	0.015598635	0.015954284	0.016318041	0.016690093	0.017070627	0.017459837
Proj00010-3UG-PAS	-0.951022958	-0.972706282	-0.994883985	-1.01756734	-1.040767875	-1.064497383	-1.088767923	-1.113591832	-1.138981725
Proj00010-3UG-UGAS	1.486759381	1.520657494	1.555328485	1.590789975	1.627059986	1.664156954	1.702099732	1.740907606	1.7806003
Proj00010-3UG-UGAS									
Proj00010-3UG-UGAS	0.006713509	0.006866577	0.007023135	0.007183263	0.007347041	0.007514554	0.007685886	0.007861124	0.008040357
Proj00010-3UG-UGAS	-0.951022958	-0.972706282	-0.994883985	-1.01756734	-1.040767875	-1.064497383	-1.088767923	-1.113591832	-1.138981725
Proj00011-3UG-ALT1									
Proj00011-3UG-ALT1	0.032612823	0.033356395	0.034116921	0.034894787	0.035690388	0.036504129	0.037336423	0.038187694	0.039058373
Proj00011-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00011-3UG-PAS									
Proj00011-3UG-PAS	0.005135879	0.005252978	0.005372745	0.005495244	0.005620536	0.005748684	0.005879754	0.006013812	0.006150927
Proj00011-3UG-PAS	-2.230277804	-2.281128138	-2.333137859	-2.386333403	-2.440741804	-2.496390717	-2.553308426	-2.611523858	-2.671066602
Proj00011-3UG-UGAS	4.579823663	4.684243642	4.791044397	4.90028021	5.012006598	5.126280349	5.243159541	5.362703578	5.48497322
Proj00011-3UG-UGAS									
Proj00011-3UG-UGAS	0.005135879	0.005252978	0.005372745	0.005495244	0.005620536	0.005748684	0.005879754	0.006013812	0.006150927
Proj00011-3UG-UGAS	-2.230277804	-2.281128138	-2.333137859	-2.386333403	-2.440741804	-2.496390717	-2.553308426	-2.611523858	-2.671066602
Proj00012-3UG-ALT1									
Proj00012-3UG-ALT1	0.032884041	0.033633797	0.034400648	0.035184982	0.0359872	0.036807708	0.037646924	0.038505274	0.039383194
Proj00012-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00012-3UG-PAS									
Proj00012-3UG-PAS	0.013817596	0.014132637	0.014454861	0.014784432	0.015121517	0.015466287	0.015818919	0.01617959	0.016548485
Proj00012-3UG-PAS	-1.14416699	-1.170253998	-1.196935789	-1.224225925	-1.252138276	-1.280687029	-1.309886693	-1.33975211	-1.370298458
Proj00012-3UG-UGAS	1.727803281	1.767197196	1.807489292	1.848700048	1.890850409	1.933961798	1.978056127	2.023155807	2.069283759
Proj00012-3UG-UGAS									
Proj00012-3UG-UGAS	0.004664306	0.004770652	0.004879423	0.004990674	0.005104461	0.005220843	0.005339878	0.005461627	0.005586152
Proj00012-3UG-UGAS	-1.14416699	-1.170253998	-1.196935789	-1.224225925	-1.252138276	-1.280687029	-1.309886693	-1.33975211	-1.370298458
Proj00013-3UG-ALT1									
Proj00013-3UG-ALT1	0.052343241	0.053536667	0.054757303	0.05600577	0.057282701	0.058588747	0.05992457	0.06129085	0.062688282
Proj00013-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00013-3UG-PAS									
Proj00013-3UG-PAS	0.009096318	0.009303714	0.009515839	0.0097328	0.009954708	0.010181675	0.010413817	0.010651252	0.010894101
Proj00013-3UG-PAS	-1.960700913	-2.005404894	-2.051128126	-2.097893847	-2.145725827	-2.194648376	-2.244686359	-2.295865208	-2.348210934
Proj00013-3UG-UGAS	2.328476866	2.381566138	2.435865846	2.491403588	2.548207589	2.606306722	2.665730516	2.726509171	2.788673581
Proj00013-3UG-UGAS									
Proj00013-3UG-UGAS	0.009028516	0.009234366	0.00944491	0.009660253	0.009880507	0.010105783	0.010336195	0.01057186	0.010812898
Proj00013-3UG-UGAS	-1.960700913	-2.005404894	-2.051128126	-2.097893847	-2.145725827	-2.194648376	-2.244686359	-2.295865208	-2.348210934
Proj00014-3UG-ALT1									
Proj00014-3UG-ALT1	0.008543089	0.008737871	0.008937095	0.00914086	0.009349272	0.009562435	0.009780459	0.010003453	0.010231532
Proj00014-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00014-3UG-PAS									
Proj00014-3UG-PAS	0.001080338	0.00110497	0.001130163	0.001155931	0.001182286	0.001209242	0.001236813	0.001265012	0.001293854
Proj00014-3UG-PAS	-0.474104092	-0.484913666	-0.495969697	-0.507277806	-0.51884374	-0.530673378	-0.542772731	-0.555147949	-0.567805322
Proj00014-3UG-UGAS	0.549266823	0.561790106	0.574598921	0.587699776	0.601099331	0.614804396	0.628821936	0.643159076	0.657823103
Proj00014-3UG-UGAS									
Proj00014-3UG-UGAS	0.001080338	0.00110497	0.001130163	0.001155931	0.001182286	0.001209242	0.001236813	0.001265012	0.001293854
Proj00014-3UG-UGAS	-0.474104092	-0.484913666	-0.495969697	-0.507277806	-0.51884374	-0.530673378	-0.542772731	-0.555147949	-0.567805322
Proj00015-3UG-ALT1									
Proj00015-3UG-ALT1	0.154724486	0.158252204	0.161860355	0.165550771	0.169325328	0.173185946	0.177134585	0.181173254	0.185304004
Proj00015-3UG-ALT1	-0.078535517	-0.080326127	-0.082157562	-0.084030755	-0.085946656	-0.08790624	-0.089910502	-0.091960462	-0.09405716
Proj00015-3UG-PAS									
Proj00015-3UG-PAS	0.045824833	0.046869639	0.047938267	0.049031259	0.050149172	0.051292573	0.052462044	0.053658178	0.054881585
Proj00015-3UG-PAS	-2.652032861	-2.71249921	-2.774344192	-2.83759924	-2.902296503	-2.968468863	-3.036149953	-3.105374172	-3.176176703
Proj00015-3UG-UGAS	3.890402207	3.979103378	4.069826935	4.162618989	4.257526702	4.35459831	4.453883152	4.555431688	4.65929553
Proj00015-3UG-UGAS									
Proj00015-3UG-UGAS	0.020331228	0.02079478	0.021268901	0.021753832	0.022249819	0.022757115	0.023275977	0.023806669	0.024349461
Proj00015-3UG-UGAS	-2.652032861	-2.71249921	-2.774344192	-2.83759924	-2.902296503	-2.968468863	-3.036149953	-3.105374172	-3.176176703
Proj00016-3UG-ALT1									

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rru_id	annual_costs_in_year_41	annual_costs_in_year_42	annual_costs_in_year_43	annual_costs_in_year_44	annual_costs_in_year_45	annual_costs_in_year_46	annual_costs_in_year_47	annual_costs_in_year_48	annual_costs_in_year_49
Proj00016-3UG-ALT1	0.17425148	0.178224414	0.18228793	0.186444095	0.19069502	0.195042867	0.199489844	0.204038213	0.208690284
Proj00016-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00016-3UG-PAS									
Proj00016-3UG-PAS	0.166575768	0.170373695	0.174258216	0.178231303	0.182294977	0.186451302	0.190702392	0.195050406	0.199497556
Proj00016-3UG-PAS	-0.175496641	-0.179497964	-0.183590518	-0.187776382	-0.192057683	-0.196436599	-0.200915353	-0.205496223	-0.210181537
Proj00016-3UG-UGAS	4.072623357	4.165479169	4.260452094	4.357590402	4.456943463	4.558561774	4.662496983	4.768801914	4.877530597
Proj00016-3UG-UGAS									
Proj00016-3UG-UGAS	0.001816587	0.001858005	0.001900367	0.001943696	0.001988012	0.002033339	0.002079699	0.002127116	0.002175614
Proj00016-3UG-UGAS	-0.175496641	-0.179497964	-0.183590518	-0.187776382	-0.192057683	-0.196436599	-0.200915353	-0.205496223	-0.210181537
Proj00017-3UG-ALT1									
Proj00017-3UG-ALT1	0.049156528	0.050277297	0.051423619	0.052596078	0.053795269	0.055021801	0.056276298	0.057559397	0.058871752
Proj00017-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00017-3UG-PAS									
Proj00017-3UG-PAS	0.032497219	0.033238156	0.033995986	0.034771094	0.035563875	0.036374731	0.037204075	0.038052328	0.038919921
Proj00017-3UG-PAS	-0.831237421	-0.850189634	-0.869573958	-0.889400244	-0.90967857	-0.930419241	-0.9516328	-0.973330028	-0.995521952
Proj00017-3UG-UGAS	2.487994788	2.544721069	2.60274071	2.662083198	2.722778695	2.784858049	2.848352813	2.913295257	2.979718389
Proj00017-3UG-UGAS									
Proj00017-3UG-UGAS	0.003206708	0.003279821	0.003354601	0.003431086	0.003509315	0.003589327	0.003671164	0.003754867	0.003840478
Proj00017-3UG-UGAS	-0.831237421	-0.850189634	-0.869573958	-0.889400244	-0.90967857	-0.930419241	-0.9516328	-0.973330028	-0.995521952
Proj00018-3UG-ALT1									
Proj00018-3UG-ALT1	0.015933491	0.016296774	0.016668341	0.017048379	0.017437082	0.017834648	0.018241278	0.018657179	0.019082562
Proj00018-3UG-ALT1	-0.007372088	-0.007540172	-0.007712088	-0.007887923	-0.008067768	-0.008251713	-0.008439852	-0.008632281	-0.008829097
Proj00018-3UG-PAS									
Proj00018-3UG-PAS	0.002109225	0.002157315	0.002206502	0.00225681	0.002308265	0.002360894	0.002414722	0.002469778	0.002526089
Proj00018-3UG-PAS	-0.686996685	-0.702660209	-0.718680862	-0.735066785	-0.751826308	-0.768967948	-0.786500417	-0.804432627	-0.822773691
Proj00018-3UG-UGAS	0.926817864	0.947949311	0.969562555	0.991668582	1.014278625	1.037404178	1.061056993	1.085249093	1.109992772
Proj00018-3UG-UGAS									
Proj00018-3UG-UGAS	0.002109225	0.002157315	0.002206502	0.00225681	0.002308265	0.002360894	0.002414722	0.002469778	0.002526089
Proj00018-3UG-UGAS	-0.686996685	-0.702660209	-0.718680862	-0.735066785	-0.751826308	-0.768967948	-0.786500417	-0.804432627	-0.822773691
Proj00019-3UG-ALT1									
Proj00019-3UG-ALT1	0.057835227	0.05915387	0.060502578	0.061882037	0.063292948	0.064736027	0.066212008	0.067721642	0.069265696
Proj00019-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00019-3UG-PAS									
Proj00019-3UG-PAS	0.00962013	0.009839469	0.010063809	0.010293264	0.01052795	0.010767988	0.011013498	0.011264606	0.011521439
Proj00019-3UG-PAS	-2.697721684	-2.759229739	-2.822140177	-2.886484973	-2.95229683	-3.019609198	-3.088456287	-3.158873091	-3.230895397
Proj00019-3UG-UGAS	3.205659503	3.27874854	3.353504007	3.429963898	3.508167075	3.588153284	3.669963179	3.753638339	3.839221294
Proj00019-3UG-UGAS									
Proj00019-3UG-UGAS	0.00962013	0.009839469	0.010063809	0.010293264	0.01052795	0.010767988	0.011013498	0.011264606	0.011521439
Proj00019-3UG-UGAS	-2.697721684	-2.759229739	-2.822140177	-2.886484973	-2.95229683	-3.019609198	-3.088456287	-3.158873091	-3.230895397
Proj00020-3UG-ALT1									
Proj00020-3UG-ALT1	0.033223072	0.033980558	0.034755314	0.035547736	0.036358224	0.037187192	0.038035059	0.038902259	0.03978923
Proj00020-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00020-3UG-PAS									
Proj00020-3UG-PAS	0.004707179	0.004814503	0.004924274	0.005036547	0.00515138	0.005268832	0.005388961	0.005511829	0.005637499
Proj00020-3UG-PAS	-2.329104752	-2.38220834	-2.43652269	-2.492075408	-2.548894727	-2.607009527	-2.666449344	-2.727244389	-2.789425561
Proj00020-3UG-UGAS	2.561041946	2.619433703	2.679156791	2.740241566	2.802719074	2.866621068	2.931980029	2.998829173	3.067202479
Proj00020-3UG-UGAS									
Proj00020-3UG-UGAS	0.004707179	0.004814503	0.004924274	0.005036547	0.00515138	0.005268832	0.005388961	0.005511829	0.005637499
Proj00020-3UG-UGAS	-2.329104752	-2.38220834	-2.43652269	-2.492075408	-2.548894727	-2.607009527	-2.666449344	-2.727244389	-2.789425561
Proj00021-3UG-ALT1									
Proj00021-3UG-ALT1	0.135536466	0.138626698	0.141787386	0.145020139	0.148326598	0.151708444	0.155167397	0.158705213	0.162323692
Proj00021-3UG-ALT1	-0.029816144	-0.030495952	-0.031191259	-0.03190242	-0.032629795	-0.033373755	-0.034134676	-0.034912947	-0.035708962
Proj00021-3UG-PAS									
Proj00021-3UG-PAS	0.020063371	0.020520816	0.02098869	0.021467233	0.021956685	0.022457298	0.022969324	0.023493025	0.024028666
Proj00021-3UG-PAS	-3.42391577	-3.50198105	-3.581826218	-3.663491856	-3.74701947	-3.832451514	-3.919831408	-4.009203564	-4.100613406
Proj00021-3UG-UGAS	4.003628293	4.094911018	4.188274989	4.283767659	4.381437561	4.481334338	4.583508761	4.68801276	4.794899451
Proj00021-3UG-UGAS									
Proj00021-3UG-UGAS	0.020063371	0.020520816	0.02098869	0.021467233	0.021956685	0.022457298	0.022969324	0.023493025	0.024028666
Proj00021-3UG-UGAS	-3.42391577	-3.50198105	-3.581826218	-3.663491856	-3.74701947	-3.832451514	-3.919831408	-4.009203564	-4.100613406
Proj00022-3UG-ALT1									
Proj00022-3UG-ALT1	0.016340315	0.016712874	0.017093927	0.017483669	0.017882297	0.018290013	0.018707025	0.019133546	0.01956979
Proj00022-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00022-3UG-PAS									
Proj00022-3UG-PAS	0.014681929	0.015016677	0.015359058	0.015709244	0.016067415	0.016433752	0.016808442	0.017191674	0.017583644
Proj00022-3UG-PAS	-0.034736584	-0.035528578	-0.03633863	-0.037167151	-0.038014562	-0.038881294	-0.039767787	-0.040674493	-0.041601871
Proj00022-3UG-UGAS	0.379172121	0.387817245	0.396659478	0.405703314	0.41495335	0.424414286	0.434090932	0.443988205	0.454111136
Proj00022-3UG-UGAS									
Proj00022-3UG-UGAS	0.000240075	0.000245548	0.000251147	0.000256873	0.00026273	0.00026872	0.000274847	0.000281113	0.000287523
Proj00022-3UG-UGAS	-0.034736584	-0.035528578	-0.03633863	-0.037167151	-0.038014562	-0.038881294	-0.039767787	-0.040674493	-0.041601871
Proj00023-3UG-ALT1									
Proj00023-3UG-ALT1	0.167539092	0.171358984	0.175265968	0.179262033	0.183349207	0.187529569	0.191805243	0.196178403	0.20065127
Proj00023-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00023-3UG-PAS									
Proj00023-3UG-PAS	0.029993507	0.030677359	0.031376803	0.032092194	0.032823896	0.033572281	0.034337729	0.035120629	0.035921379
Proj00023-3UG-PAS	-7.539646801	-7.711550748	-7.887374105	-8.067206235	-8.251138537	-8.439264496	-8.631679726	-8.828482024	-9.029771414
Proj00023-3UG-UGAS	8.24536945	8.433363874	8.62564457	8.822309266	9.023457917	9.229192758	9.439618353	9.654841651	9.874972041
Proj00023-3UG-UGAS									
Proj00023-3UG-UGAS	0.028637464	0.029290399	0.02995822	0.030641267	0.031339888	0.032054437	0.032785279	0.033532783	0.03429733
Proj00023-3UG-UGAS	-7.539646801	-7.711550748	-7.887374105	-8.067206235	-8.251138537	-8.439264496	-8.631679726	-8.828482024	-9.029771414
Proj00024-3UG-ALT1									
Proj00024-3UG-ALT1	0.007729448	0.007905679	0.008085928	0.008270288	0.00845885	0.008651712	0.008848971	0.009050728	0.009257084

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rru_id	annual_costs_in_year_41	annual_costs_in_year_42	annual_costs_in_year_43	annual_costs_in_year_44	annual_costs_in_year_45	annual_costs_in_year_46	annual_costs_in_year_47	annual_costs_in_year_48	annual_costs_in_year_49
Proj00024-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00024-3UG-PAS									
Proj00024-3UG-PAS	0.001054614	0.001078659	0.001103252	0.001128406	0.001154134	0.001180448	0.001207363	0.00123489	0.001263046
Proj00024-3UG-PAS	-0.537687635	-0.549946914	-0.562485703	-0.575310377	-0.588427454	-0.6018436	-0.615565634	-0.62960053	-0.643955422
Proj00024-3UG-UGAS	0.602924828	0.616671514	0.630731624	0.645112306	0.659820866	0.674864782	0.690251699	0.705989438	0.722085997
Proj00024-3UG-UGAS									
Proj00024-3UG-UGAS	0.001054614	0.001078659	0.001103252	0.001128406	0.001154134	0.001180448	0.001207363	0.00123489	0.001263046
Proj00024-3UG-UGAS	-0.537687635	-0.549946914	-0.562485703	-0.575310377	-0.588427454	-0.6018436	-0.615565634	-0.62960053	-0.643955422
Proj00025-3UG-ALT1									
Proj00025-3UG-ALT1	0.019255826	0.019694859	0.020143902	0.020603183	0.021072936	0.021553399	0.022044816	0.022547438	0.023061519
Proj00025-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00025-3UG-PAS									
Proj00025-3UG-PAS	0.003069528	0.003139513	0.003211094	0.003284307	0.003359189	0.003435778	0.003514114	0.003594236	0.003676184
Proj00025-3UG-PAS	-1.147749578	-1.173918269	-1.200683605	-1.228059191	-1.256058941	-1.284697085	-1.313988178	-1.343947109	-1.374589103
Proj00025-3UG-UGAS	1.316998233	1.347025793	1.377737981	1.409150407	1.441279037	1.474140199	1.507750595	1.542127309	1.577287811
Proj00025-3UG-UGAS									
Proj00025-3UG-UGAS	0.003069528	0.003139513	0.003211094	0.003284307	0.003359189	0.003435778	0.003514114	0.003594236	0.003676184
Proj00025-3UG-UGAS	-1.147749578	-1.173918269	-1.200683605	-1.228059191	-1.256058941	-1.284697085	-1.313988178	-1.343947109	-1.374589103
Proj00026-3UG-ALT1									
Proj00026-3UG-ALT1	0.022984911	0.023508967	0.024044972	0.024593197	0.025153922	0.025727431	0.026314017	0.026913976	0.027527615
Proj00026-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00026-3UG-PAS									
Proj00026-3UG-PAS	0.002820874	0.00288519	0.002950972	0.003018255	0.003087071	0.003157456	0.003229446	0.003303077	0.003378388
Proj00026-3UG-PAS	-1.608556733	-1.645231827	-1.682743112	-1.721109655	-1.760350955	-1.800486957	-1.84153806	-1.883525128	-1.926469501
Proj00026-3UG-UGAS	1.765296045	1.805544795	1.846711216	1.888816232	1.931881242	1.975928134	2.020979296	2.067057624	2.114186537
Proj00026-3UG-UGAS									
Proj00026-3UG-UGAS	0.002820874	0.00288519	0.002950972	0.003018255	0.003087071	0.003157456	0.003229446	0.003303077	0.003378388
Proj00026-3UG-UGAS	-1.608556733	-1.645231827	-1.682743112	-1.721109655	-1.760350955	-1.800486957	-1.84153806	-1.883525128	-1.926469501
Proj00027-3UG-ALT1									
Proj00027-3UG-ALT1	0.008949867	0.009153924	0.009362633	0.009576101	0.009794436	0.010017749	0.010246154	0.010479766	0.010718705
Proj00027-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00027-3UG-PAS									
Proj00027-3UG-PAS	0.001123204	0.001148813	0.001175006	0.001201796	0.001229197	0.001257223	0.001285887	0.001315206	0.001345192
Proj00027-3UG-PAS	-0.525216477	-0.537191413	-0.549439377	-0.561966595	-0.574779433	-0.587884404	-0.601288169	-0.614997539	-0.629019483
Proj00027-3UG-UGAS	0.57275045	0.585809161	0.599165609	0.612826585	0.626799031	0.641090049	0.655706902	0.67065702	0.685948
Proj00027-3UG-UGAS									
Proj00027-3UG-UGAS	0.001123204	0.001148813	0.001175006	0.001201796	0.001229197	0.001257223	0.001285887	0.001315206	0.001345192
Proj00027-3UG-UGAS	-0.525216477	-0.537191413	-0.549439377	-0.561966595	-0.574779433	-0.587884404	-0.601288169	-0.614997539	-0.629019483
Proj00028-3UG-ALT1									
Proj00028-3UG-ALT1	0.02169669	0.022191375	0.022697338	0.023214837	0.023744135	0.024285502	0.024839211	0.025405545	0.025984792
Proj00028-3UG-ALT1	0	0	0	0	0	0	0	0	0
Proj00028-3UG-PAS									
Proj00028-3UG-PAS	0.006198457	0.006339782	0.006484329	0.006632172	0.006783385	0.006938047	0.007096234	0.007258028	0.007423511
Proj00028-3UG-PAS	-1.392983492	-1.424743516	-1.457227668	-1.490452459	-1.524434775	-1.559191888	-1.594741463	-1.631101568	-1.668290684
Proj00028-3UG-UGAS	1.852784496	1.895027983	1.938234621	1.98242637	2.027625691	2.073855557	2.121139464	2.169501443	2.218966076
Proj00028-3UG-UGAS									
Proj00028-3UG-UGAS	0.002469339	0.00252564	0.002583224	0.002642122	0.002702362	0.002763976	0.002826995	0.00289145	0.002957375
Proj00028-3UG-UGAS	-1.392983492	-1.424743516	-1.457227668	-1.490452459	-1.524434775	-1.559191888	-1.594741463	-1.631101568	-1.668290684

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Pacific Gas and Electric Company
Electrical Undergrounding Program
SPD-37 Table 7: Annual Costs (Capital and O&M) and O&M Savings

rru_id	annual_costs_in_year_50	annual_costs_in_year_51	annual_costs_in_year_52	annual_costs_in_year_53	annual_costs_in_year_54	annual_costs_in_year_55	annual_costs_in_year_56	reporting_date	calculated_date
Proj00001-3UG-ALT1								11/2/2026	10/30/2026
Proj00001-3UG-ALT1								11/2/2026	10/30/2026
Proj00001-3UG-ALT1								11/2/2026	10/30/2026
Proj00001-3UG-PAS								11/2/2026	10/30/2026
Proj00001-3UG-PAS	0.003812508	0.003899433	0.00398834	0.004079274	0.004172282	0.00426741	0.004364706	11/2/2026	10/30/2026
Proj00001-3UG-PAS	-3.36824954	-3.44504563	-3.52359267	-3.603930583	-3.6861002	-3.770143285	-3.856102552	11/2/2026	10/30/2026
Proj00001-3UG-UGAS	3.589764812	3.67161145	3.755324191	3.840945583	3.928519142	4.018089378	4.109701816	11/2/2026	10/30/2026
Proj00001-3UG-UGAS								11/2/2026	10/30/2026
Proj00001-3UG-UGAS	0.003812508	0.003899433	0.00398834	0.004079274	0.004172282	0.00426741	0.004364706	11/2/2026	10/30/2026
Proj00001-3UG-UGAS	-3.36824954	-3.44504563	-3.52359267	-3.603930583	-3.6861002	-3.770143285	-3.856102552	11/2/2026	10/30/2026
Proj00002-3UG-ALT1								11/2/2026	10/30/2026
Proj00002-3UG-ALT1								11/2/2026	10/30/2026
Proj00002-3UG-ALT1								11/2/2026	10/30/2026
Proj00002-3UG-PAS								11/2/2026	10/30/2026
Proj00002-3UG-PAS	0.003062663	0.003132492	0.003203913	0.003276962	0.003351677	0.003428095	0.003506255	11/2/2026	10/30/2026
Proj00002-3UG-PAS	-0.813169036	-0.83170929	-0.850672262	-0.87006759	-0.889905131	-0.910194968	-0.930947413	11/2/2026	10/30/2026
Proj00002-3UG-UGAS	1.626364624	1.663445737	1.7013723	1.740163589	1.779839318	1.820419655	1.861925223	11/2/2026	10/30/2026
Proj00002-3UG-UGAS								11/2/2026	10/30/2026
Proj00002-3UG-UGAS	0.003062663	0.003132492	0.003203913	0.003276962	0.003351677	0.003428095	0.003506255	11/2/2026	10/30/2026
Proj00002-3UG-UGAS	-0.813169036	-0.83170929	-0.850672262	-0.87006759	-0.889905131	-0.910194968	-0.930947413	11/2/2026	10/30/2026
Proj00003-3UG-ALT1								11/2/2026	10/30/2026
Proj00003-3UG-ALT1								11/2/2026	10/30/2026
Proj00003-3UG-ALT1								11/2/2026	10/30/2026
Proj00003-3UG-PAS								11/2/2026	10/30/2026
Proj00003-3UG-PAS	0.012099211	0.012375073	0.012657225	0.01294581	0.013240974	0.013542869	0.013851646	11/2/2026	10/30/2026
Proj00003-3UG-PAS	-4.043089386	-4.135271824	-4.229556021	-4.325989898	-4.424622468	-4.52550386	-4.628685348	11/2/2026	10/30/2026
Proj00003-3UG-UGAS	4.645171759	4.751081675	4.859406337	4.970200802	5.08352138	5.199425667	5.317972573	11/2/2026	10/30/2026
Proj00003-3UG-UGAS								11/2/2026	10/30/2026
Proj00003-3UG-UGAS	0.012099211	0.012375073	0.012657225	0.01294581	0.013240974	0.013542869	0.013851646	11/2/2026	10/30/2026
Proj00003-3UG-UGAS	-4.043089386	-4.135271824	-4.229556021	-4.325989898	-4.424622468	-4.52550386	-4.628685348	11/2/2026	10/30/2026
Proj00004-3UG-ALT1								11/2/2026	10/30/2026
Proj00004-3UG-ALT1								11/2/2026	10/30/2026
Proj00004-3UG-ALT1								11/2/2026	10/30/2026
Proj00004-3UG-PAS								11/2/2026	10/30/2026
Proj00004-3UG-PAS	0.000504131	0.000515626	0.000527382	0.000539406	0.000551705	0.000564283	0.000577149	11/2/2026	10/30/2026
Proj00004-3UG-PAS	-0.144991761	-0.148297573	-0.151678757	-0.155137033	-0.158674157	-0.162291928	-0.165992184	11/2/2026	10/30/2026
Proj00004-3UG-UGAS	0.163895881	0.167632707	0.171454733	0.175363901	0.179362198	0.183451656	0.187634353	11/2/2026	10/30/2026
Proj00004-3UG-UGAS								11/2/2026	10/30/2026
Proj00004-3UG-UGAS	0.000504131	0.000515626	0.000527382	0.000539406	0.000551705	0.000564283	0.000577149	11/2/2026	10/30/2026
Proj00004-3UG-UGAS	-0.144991761	-0.148297573	-0.151678757	-0.155137033	-0.158674157	-0.162291928	-0.165992184	11/2/2026	10/30/2026
Proj00005-3UG-ALT1								11/2/2026	10/30/2026
Proj00005-3UG-ALT1								11/2/2026	10/30/2026
Proj00005-3UG-ALT1								11/2/2026	10/30/2026
Proj00005-3UG-PAS								11/2/2026	10/30/2026
Proj00005-3UG-PAS	0.006921333	0.00707914	0.007240544	0.007405628	0.007574477	0.007747175	0.00792381	11/2/2026	10/30/2026
Proj00005-3UG-PAS	-3.704471647	-3.788933601	-3.875321287	-3.963678612	-4.054050485	-4.146482836	-4.241022644	11/2/2026	10/30/2026
Proj00005-3UG-UGAS	3.886174951	3.97477974	4.065404718	4.158095946	4.252900533	4.349866665	4.449043625	11/2/2026	10/30/2026
Proj00005-3UG-UGAS								11/2/2026	10/30/2026
Proj00005-3UG-UGAS	0.006921333	0.00707914	0.007240544	0.007405628	0.007574477	0.007747175	0.00792381	11/2/2026	10/30/2026
Proj00005-3UG-UGAS	-3.704471647	-3.788933601	-3.875321287	-3.963678612	-4.054050485	-4.146482836	-4.241022644	11/2/2026	10/30/2026
Proj00006-3UG-ALT1								11/2/2026	10/30/2026
Proj00006-3UG-ALT1								11/2/2026	10/30/2026
Proj00006-3UG-ALT1								11/2/2026	10/30/2026
Proj00006-3UG-PAS								11/2/2026	10/30/2026
Proj00006-3UG-PAS	0.005094062	0.005210207	0.005329	0.005450501	0.005574772	0.005701877	0.00583188	11/2/2026	10/30/2026
Proj00006-3UG-PAS	-0.222751445	-0.227830178	-0.233024706	-0.238337669	-0.243771768	-0.249329764	-0.255014483	11/2/2026	10/30/2026
Proj00006-3UG-UGAS	0.431157172	0.440987555	0.451042072	0.461325831	0.47184406	0.482602104	0.493605432	11/2/2026	10/30/2026
Proj00006-3UG-UGAS								11/2/2026	10/30/2026
Proj00006-3UG-UGAS	0.000609161	0.00062305	0.000637255	0.000651784	0.000666645	0.000681845	0.000697391	11/2/2026	10/30/2026
Proj00006-3UG-UGAS	-0.222751445	-0.227830178	-0.233024706	-0.238337669	-0.243771768	-0.249329764	-0.255014483	11/2/2026	10/30/2026
Proj00007-3UG-ALT1								11/2/2026	10/30/2026
Proj00007-3UG-ALT1								11/2/2026	10/30/2026
Proj00007-3UG-ALT1								11/2/2026	10/30/2026
Proj00007-3UG-PAS								11/2/2026	10/30/2026
Proj00007-3UG-PAS	0.059510699	0.060867543	0.062255323	0.063674744	0.065126528	0.066611413	0.068130153	11/2/2026	10/30/2026
Proj00007-3UG-PAS	-0.18879031	-0.19309473	-0.197497289	-0.202000228	-0.206605833	-0.211316446	-0.216134461	11/2/2026	10/30/2026
Proj00007-3UG-UGAS	1.745825771	1.785630599	1.826342977	1.867983597	1.910573623	1.954134701	1.998688972	11/2/2026	10/30/2026
Proj00007-3UG-UGAS								11/2/2026	10/30/2026
Proj00007-3UG-UGAS	0.001123799	0.001149421	0.001175628	0.001202433	0.001229848	0.001257889	0.001286568	11/2/2026	10/30/2026
Proj00007-3UG-UGAS	-0.18879031	-0.19309473	-0.197497289	-0.202000228	-0.206605833	-0.211316446	-0.216134461	11/2/2026	10/30/2026

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rru_id	annual_costs_in_year_50	annual_costs_in_year_51	annual_costs_in_year_52	annual_costs_in_year_53	annual_costs_in_year_54	annual_costs_in_year_55	annual_costs_in_year_56	reporting_date	calculated_date
Proj00008-3UG-ALT1								11/2/2026	10/30/2026
Proj00008-3UG-ALT1								11/2/2026	10/30/2026
Proj00008-3UG-ALT1								11/2/2026	10/30/2026
Proj00008-3UG-PAS								11/2/2026	10/30/2026
Proj00008-3UG-PAS	0.097962379	0.100195921	0.102480388	0.104816941	0.107206767	0.109651081	0.112151126	11/2/2026	10/30/2026
Proj00008-3UG-PAS	-0.887125713	-0.907352179	-0.928039809	-0.949199117	-0.970840857	-0.992976028	-1.015615882	11/2/2026	10/30/2026
Proj00008-3UG-UGAS	2.866795498	2.932158435	2.999011647	3.067389113	3.137325585	3.208856608	3.282018539	11/2/2026	10/30/2026
Proj00008-3UG-UGAS								11/2/2026	10/30/2026
Proj00008-3UG-UGAS	0.015655982	0.016012938	0.016378033	0.016751452	0.017133385	0.017524026	0.017923574	11/2/2026	10/30/2026
Proj00008-3UG-UGAS	-0.887125713	-0.907352179	-0.928039809	-0.949199117	-0.970840857	-0.992976028	-1.015615882	11/2/2026	10/30/2026
Proj00009-3UG-ALT1								11/2/2026	10/30/2026
Proj00009-3UG-ALT1								11/2/2026	10/30/2026
Proj00009-3UG-ALT1								11/2/2026	10/30/2026
Proj00009-3UG-PAS								11/2/2026	10/30/2026
Proj00009-3UG-PAS	0.012947395	0.013242595	0.013544527	0.013853342	0.014169198	0.014492256	0.014822679	11/2/2026	10/30/2026
Proj00009-3UG-PAS	-3.234877131	-3.30863233	-3.384069147	-3.461225923	-3.540141874	-3.620857109	-3.703412651	11/2/2026	10/30/2026
Proj00009-3UG-UGAS	3.969527878	4.060033114	4.152601869	4.247281192	4.344119203	4.443165121	4.544469285	11/2/2026	10/30/2026
Proj00009-3UG-UGAS								11/2/2026	10/30/2026
Proj00009-3UG-UGAS	0.009126918	0.009335012	0.00954785	0.009765541	0.009988196	0.010215926	0.01044885	11/2/2026	10/30/2026
Proj00009-3UG-UGAS	-3.234877131	-3.30863233	-3.384069147	-3.461225923	-3.540141874	-3.620857109	-3.703412651	11/2/2026	10/30/2026
Proj00010-3UG-ALT1								11/2/2026	10/30/2026
Proj00010-3UG-ALT1								11/2/2026	10/30/2026
Proj00010-3UG-ALT1								11/2/2026	10/30/2026
Proj00010-3UG-PAS								11/2/2026	10/30/2026
Proj00010-3UG-PAS	0.017857921	0.018265082	0.018681526	0.019107465	0.019543115	0.019988698	0.02044444	11/2/2026	10/30/2026
Proj00010-3UG-PAS	-1.164950509	-1.19151138	-1.21867784	-1.246463694	-1.274883067	-1.303950401	-1.33368047	11/2/2026	10/30/2026
Proj00010-3UG-UGAS	1.821197987	1.862721301	1.905191346	1.948629709	1.993058466	2.038500199	2.084978004	11/2/2026	10/30/2026
Proj00010-3UG-UGAS								11/2/2026	10/30/2026
Proj00010-3UG-UGAS	0.008223678	0.008411177	0.008602952	0.0087991	0.008999719	0.009204913	0.009414785	11/2/2026	10/30/2026
Proj00010-3UG-UGAS	-1.164950509	-1.19151138	-1.21867784	-1.246463694	-1.274883067	-1.303950401	-1.33368047	11/2/2026	10/30/2026
Proj00011-3UG-ALT1								11/2/2026	10/30/2026
Proj00011-3UG-ALT1								11/2/2026	10/30/2026
Proj00011-3UG-ALT1								11/2/2026	10/30/2026
Proj00011-3UG-PAS								11/2/2026	10/30/2026
Proj00011-3UG-PAS	0.006291168	0.006434607	0.006581316	0.00673137	0.006884845	0.00704182	0.007202373	11/2/2026	10/30/2026
Proj00011-3UG-PAS	-2.73196692	-2.794255766	-2.857964797	-2.923126395	-2.989773677	-3.057940516	-3.12766156	11/2/2026	10/30/2026
Proj00011-3UG-UGAS	5.610030609	5.737939307	5.868764323	6.00257215	6.139430795	6.279409817	6.422580361	11/2/2026	10/30/2026
Proj00011-3UG-UGAS								11/2/2026	10/30/2026
Proj00011-3UG-UGAS	0.006291168	0.006434607	0.006581316	0.00673137	0.006884845	0.00704182	0.007202373	11/2/2026	10/30/2026
Proj00011-3UG-UGAS	-2.73196692	-2.794255766	-2.857964797	-2.923126395	-2.989773677	-3.057940516	-3.12766156	11/2/2026	10/30/2026
Proj00012-3UG-ALT1								11/2/2026	10/30/2026
Proj00012-3UG-ALT1								11/2/2026	10/30/2026
Proj00012-3UG-ALT1								11/2/2026	10/30/2026
Proj00012-3UG-PAS								11/2/2026	10/30/2026
Proj00012-3UG-PAS	0.01692579	0.017311698	0.017706405	0.018110111	0.018523021	0.018945346	0.0193773	11/2/2026	10/30/2026
Proj00012-3UG-PAS	-1.401541263	-1.433496403	-1.466180121	-1.499609028	-1.533800114	-1.568770757	-1.60453873	11/2/2026	10/30/2026
Proj00012-3UG-UGAS	2.116463429	2.164718795	2.214074384	2.26455528	2.31618714	2.368996207	2.42300932	11/2/2026	10/30/2026
Proj00012-3UG-UGAS								11/2/2026	10/30/2026
Proj00012-3UG-UGAS	0.005713517	0.005843785	0.005977023	0.006113299	0.006252682	0.006395244	0.006541055	11/2/2026	10/30/2026
Proj00012-3UG-UGAS	-1.401541263	-1.433496403	-1.466180121	-1.499609028	-1.533800114	-1.568770757	-1.60453873	11/2/2026	10/30/2026
Proj00013-3UG-ALT1								11/2/2026	10/30/2026
Proj00013-3UG-ALT1								11/2/2026	10/30/2026
Proj00013-3UG-ALT1								11/2/2026	10/30/2026
Proj00013-3UG-PAS								11/2/2026	10/30/2026
Proj00013-3UG-PAS	0.011142486	0.011396535	0.011656376	0.011922141	0.012193966	0.012471989	0.01275635	11/2/2026	10/30/2026
Proj00013-3UG-PAS	-2.401750144	-2.456510047	-2.512518476	-2.569803897	-2.628395426	-2.688322842	-2.749616603	11/2/2026	10/30/2026
Proj00013-3UG-UGAS	2.852255338	2.91728676	2.983800898	3.051831558	3.121413318	3.192581542	3.265372401	11/2/2026	10/30/2026
Proj00013-3UG-UGAS								11/2/2026	10/30/2026
Proj00013-3UG-UGAS	0.011059432	0.011311587	0.011569492	0.011833276	0.012103075	0.012379025	0.012661267	11/2/2026	10/30/2026
Proj00013-3UG-UGAS	-2.401750144	-2.456510047	-2.512518476	-2.569803897	-2.628395426	-2.688322842	-2.749616603	11/2/2026	10/30/2026
Proj00014-3UG-ALT1								11/2/2026	10/30/2026
Proj00014-3UG-ALT1								11/2/2026	10/30/2026
Proj00014-3UG-ALT1								11/2/2026	10/30/2026
Proj00014-3UG-PAS								11/2/2026	10/30/2026
Proj00014-3UG-PAS	0.001323354	0.001353527	0.001384387	0.001415951	0.001448235	0.001481254	0.001515027	11/2/2026	10/30/2026
Proj00014-3UG-PAS	-0.580751284	-0.593992413	-0.60753544	-0.621387248	-0.635554877	-0.650045528	-0.664866566	11/2/2026	10/30/2026
Proj00014-3UG-UGAS	0.67282147	0.688161799	0.703851888	0.719899711	0.736313425	0.753101371	0.770272082	11/2/2026	10/30/2026
Proj00014-3UG-UGAS								11/2/2026	10/30/2026
Proj00014-3UG-UGAS	0.001323354	0.001353527	0.001384387	0.001415951	0.001448235	0.001481254	0.001515027	11/2/2026	10/30/2026
Proj00014-3UG-UGAS	-0.580751284	-0.593992413	-0.60753544	-0.621387248	-0.635554877	-0.650045528	-0.664866566	11/2/2026	10/30/2026
Proj00015-3UG-ALT1								11/2/2026	10/30/2026
Proj00015-3UG-ALT1								11/2/2026	10/30/2026
Proj00015-3UG-ALT1								11/2/2026	10/30/2026
Proj00015-3UG-PAS								11/2/2026	10/30/2026
Proj00015-3UG-PAS	0.056132885	0.057412715	0.058721724	0.06006058	0.061429961	0.062830564	0.064263101	11/2/2026	10/30/2026
Proj00015-3UG-PAS	-3.248593532	-3.322661464	-3.398418146	-3.47590208	-3.555152647	-3.636210127	-3.719115718	11/2/2026	10/30/2026
Proj00015-3UG-UGAS	4.765527468	4.874181495	4.985312833	5.098977965	5.215234663	5.334142013	5.455760451	11/2/2026	10/30/2026
Proj00015-3UG-UGAS								11/2/2026	10/30/2026
Proj00015-3UG-UGAS	0.024904629	0.025472455	0.026053227	0.02664724	0.027254797	0.027876207	0.028511784	11/2/2026	10/30/2026
Proj00015-3UG-UGAS	-3.248593532	-3.322661464	-3.398418146	-3.47590208	-3.555152647	-3.636210127	-3.719115718	11/2/2026	10/30/2026
Proj00016-3UG-ALT1								11/2/2026	10/30/2026

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rru_id	annual_costs_in_year_50	annual_costs_in_year_51	annual_costs_in_year_52	annual_costs_in_year_53	annual_costs_in_year_54	annual_costs_in_year_55	annual_costs_in_year_56	reporting_date	calculated_date
Proj00016-3UG-ALT1								11/2/2026	10/30/2026
Proj00016-3UG-ALT1								11/2/2026	10/30/2026
Proj00016-3UG-PAS								11/2/2026	10/30/2026
Proj00016-3UG-PAS	0.2040461	0.208698351	0.213456673	0.218323486	0.223301261	0.22839253	0.233599879	11/2/2026	10/30/2026
Proj00016-3UG-PAS	-0.214973676	-0.219875076	-0.224888228	-0.230015679	-0.235260037	-0.240623965	-0.246110192	11/2/2026	10/30/2026
Proj00016-3UG-UGAS	4.988738295	5.102481528	5.218818107	5.33780716	5.459509163	5.583985972	5.711300852	11/2/2026	10/30/2026
Proj00016-3UG-UGAS								11/2/2026	10/30/2026
Proj00016-3UG-UGAS	0.002225218	0.002275953	0.002327845	0.00238092	0.002435205	0.002490727	0.002547516	11/2/2026	10/30/2026
Proj00016-3UG-UGAS	-0.214973676	-0.219875076	-0.224888228	-0.230015679	-0.235260037	-0.240623965	-0.246110192	11/2/2026	10/30/2026
Proj00017-3UG-ALT1								11/2/2026	10/30/2026
Proj00017-3UG-ALT1								11/2/2026	10/30/2026
Proj00017-3UG-ALT1								11/2/2026	10/30/2026
Proj00017-3UG-PAS								11/2/2026	10/30/2026
Proj00017-3UG-PAS	0.039807295	0.040714902	0.041643202	0.042592667	0.043563779	0.044557034	0.045572934	11/2/2026	10/30/2026
Proj00017-3UG-PAS	-1.018219853	-1.041435266	-1.06517999	-1.089466093	-1.11430592	-1.139712095	-1.165697531	11/2/2026	10/30/2026
Proj00017-3UG-UGAS	3.047655968	3.117142524	3.188213374	3.260904638	3.335253264	3.411297039	3.489074611	11/2/2026	10/30/2026
Proj00017-3UG-UGAS								11/2/2026	10/30/2026
Proj00017-3UG-UGAS	0.00392804	0.0040176	0.004109201	0.004202891	0.004298717	0.004396728	0.004496973	11/2/2026	10/30/2026
Proj00017-3UG-UGAS	-1.018219853	-1.041435266	-1.06517999	-1.089466093	-1.11430592	-1.139712095	-1.165697531	11/2/2026	10/30/2026
Proj00018-3UG-ALT1								11/2/2026	10/30/2026
Proj00018-3UG-ALT1								11/2/2026	10/30/2026
Proj00018-3UG-ALT1								11/2/2026	10/30/2026
Proj00018-3UG-PAS								11/2/2026	10/30/2026
Proj00018-3UG-PAS	0.002583684	0.002642592	0.002702843	0.002764468	0.002827497	0.002891964	0.002957901	11/2/2026	10/30/2026
Proj00018-3UG-PAS	-0.841532931	-0.860719882	-0.880344295	-0.900416145	-0.920945633	-0.941943193	-0.963419498	11/2/2026	10/30/2026
Proj00018-3UG-UGAS	1.135300607	1.161185461	1.187660489	1.214739149	1.242435201	1.270762724	1.299736114	11/2/2026	10/30/2026
Proj00018-3UG-UGAS								11/2/2026	10/30/2026
Proj00018-3UG-UGAS	0.002583684	0.002642592	0.002702843	0.002764468	0.002827497	0.002891964	0.002957901	11/2/2026	10/30/2026
Proj00018-3UG-UGAS	-0.841532931	-0.860719882	-0.880344295	-0.900416145	-0.920945633	-0.941943193	-0.963419498	11/2/2026	10/30/2026
Proj00019-3UG-ALT1								11/2/2026	10/30/2026
Proj00019-3UG-ALT1								11/2/2026	10/30/2026
Proj00019-3UG-ALT1								11/2/2026	10/30/2026
Proj00019-3UG-PAS								11/2/2026	10/30/2026
Proj00019-3UG-PAS	0.011784127	0.012052805	0.012327609	0.012608679	0.012896157	0.013190189	0.013490925	11/2/2026	10/30/2026
Proj00019-3UG-PAS	-3.304559812	-3.379903776	-3.456965582	-3.535784397	-3.616400282	-3.698854208	-3.783188084	11/2/2026	10/30/2026
Proj00019-3UG-UGAS	3.926755539	4.016285565	4.107856876	4.201516013	4.297310578	4.395289259	4.495501854	11/2/2026	10/30/2026
Proj00019-3UG-UGAS								11/2/2026	10/30/2026
Proj00019-3UG-UGAS	0.011784127	0.012052805	0.012327609	0.012608679	0.012896157	0.013190189	0.013490925	11/2/2026	10/30/2026
Proj00019-3UG-UGAS	-3.304559812	-3.379903776	-3.456965582	-3.535784397	-3.616400282	-3.698854208	-3.783188084	11/2/2026	10/30/2026
Proj00020-3UG-ALT1								11/2/2026	10/30/2026
Proj00020-3UG-ALT1								11/2/2026	10/30/2026
Proj00020-3UG-ALT1								11/2/2026	10/30/2026
Proj00020-3UG-PAS								11/2/2026	10/30/2026
Proj00020-3UG-PAS	0.005766034	0.0058975	0.006031963	0.006169491	0.006310156	0.006454027	0.006601179	11/2/2026	10/30/2026
Proj00020-3UG-PAS	-2.853024464	-2.918073421	-2.984605495	-3.052654501	-3.122255023	-3.193442438	-3.266252925	11/2/2026	10/30/2026
Proj00020-3UG-UGAS	3.137134695	3.208661366	3.281818845	3.356644315	3.433175805	3.511452214	3.591513324	11/2/2026	10/30/2026
Proj00020-3UG-UGAS								11/2/2026	10/30/2026
Proj00020-3UG-UGAS	0.005766034	0.0058975	0.006031963	0.006169491	0.006310156	0.006454027	0.006601179	11/2/2026	10/30/2026
Proj00020-3UG-UGAS	-2.853024464	-2.918073421	-2.984605495	-3.052654501	-3.122255023	-3.193442438	-3.266252925	11/2/2026	10/30/2026
Proj00021-3UG-ALT1								11/2/2026	10/30/2026
Proj00021-3UG-ALT1								11/2/2026	10/30/2026
Proj00021-3UG-ALT1								11/2/2026	10/30/2026
Proj00021-3UG-PAS								11/2/2026	10/30/2026
Proj00021-3UG-PAS	0.024576519	0.025136864	0.025709985	0.026296172	0.026895725	0.027508947	0.028136151	11/2/2026	10/30/2026
Proj00021-3UG-PAS	-4.194107391	-4.28973304	-4.387538953	-4.487574841	-4.589891548	-4.694541075	-4.801576612	11/2/2026	10/30/2026
Proj00021-3UG-UGAS	4.904223159	5.016039447	5.130405146	5.247378384	5.367018611	5.489386635	5.61454465	11/2/2026	10/30/2026
Proj00021-3UG-UGAS								11/2/2026	10/30/2026
Proj00021-3UG-UGAS	0.024576519	0.025136864	0.025709985	0.026296172	0.026895725	0.027508947	0.028136151	11/2/2026	10/30/2026
Proj00021-3UG-UGAS	-4.194107391	-4.28973304	-4.387538953	-4.487574841	-4.589891548	-4.694541075	-4.801576612	11/2/2026	10/30/2026
Proj00022-3UG-ALT1								11/2/2026	10/30/2026
Proj00022-3UG-ALT1								11/2/2026	10/30/2026
Proj00022-3UG-ALT1								11/2/2026	10/30/2026
Proj00022-3UG-PAS								11/2/2026	10/30/2026
Proj00022-3UG-PAS	0.017984551	0.018394599	0.018813996	0.019242955	0.019681694	0.020130437	0.020589411	11/2/2026	10/30/2026
Proj00022-3UG-PAS	-0.042550394	-0.043520543	-0.044512811	-0.045527703	-0.046565735	-0.047627434	-0.048713339	11/2/2026	10/30/2026
Proj00022-3UG-UGAS	0.46446487	0.475054669	0.485885916	0.496964115	0.508294897	0.51988402	0.531737376	11/2/2026	10/30/2026
Proj00022-3UG-UGAS								11/2/2026	10/30/2026
Proj00022-3UG-UGAS	0.000294078	0.000300783	0.000307641	0.000314655	0.000321829	0.000329167	0.000336672	11/2/2026	10/30/2026
Proj00022-3UG-UGAS	-0.042550394	-0.043520543	-0.044512811	-0.045527703	-0.046565735	-0.047627434	-0.048713339	11/2/2026	10/30/2026
Proj00023-3UG-ALT1								11/2/2026	10/30/2026
Proj00023-3UG-ALT1								11/2/2026	10/30/2026
Proj00023-3UG-ALT1								11/2/2026	10/30/2026
Proj00023-3UG-PAS								11/2/2026	10/30/2026
Proj00023-3UG-PAS	0.036740387	0.037578068	0.038434848	0.039311162	0.040207457	0.041124187	0.042061818	11/2/2026	10/30/2026
Proj00023-3UG-PAS	-9.235650202	-9.446223027	-9.661596912	-9.881881321	-10.10718822	-10.33763211	-10.57333012	11/2/2026	10/30/2026
Proj00023-3UG-UGAS	10.1001214	10.33040417	10.56593739	10.80684076	11.05323673	11.30525053	11.56301024	11/2/2026	10/30/2026
Proj00023-3UG-UGAS								11/2/2026	10/30/2026
Proj00023-3UG-UGAS	0.035079309	0.035879118	0.036697162	0.037533857	0.038389629	0.039264912	0.040160152	11/2/2026	10/30/2026
Proj00023-3UG-UGAS	-9.235650202	-9.446223027	-9.661596912	-9.881881321	-10.10718822	-10.33763211	-10.57333012	11/2/2026	10/30/2026
Proj00024-3UG-ALT1								11/2/2026	10/30/2026
Proj00024-3UG-ALT1								11/2/2026	10/30/2026

SPD-37
Pacific Gas and Electric Company
Electrical Undergrounding Program
SPD-37 Table 7: Annual Costs (Capital and O&M) and O&M Savings

rru_id	annual_costs_in_year_50	annual_costs_in_year_51	annual_costs_in_year_52	annual_costs_in_year_53	annual_costs_in_year_54	annual_costs_in_year_55	annual_costs_in_year_56	reporting_date	calculated_date
Proj00024-3UG-ALT1								11/2/2026	10/30/2026
Proj00024-3UG-PAS								11/2/2026	10/30/2026
Proj00024-3UG-PAS	0.001291843	0.001321297	0.001351423	0.001382235	0.00141375	0.001445984	0.001478952	11/2/2026	10/30/2026
Proj00024-3UG-PAS	-0.658637606	-0.673654543	-0.689013867	-0.704723383	-0.720791076	-0.737225113	-0.754033845	11/2/2026	10/30/2026
Proj00024-3UG-UGAS	0.738549557	0.755388487	0.772611345	0.790226884	0.808244057	0.826672021	0.845520143	11/2/2026	10/30/2026
Proj00024-3UG-UGAS								11/2/2026	10/30/2026
Proj00024-3UG-UGAS	0.001291843	0.001321297	0.001351423	0.001382235	0.00141375	0.001445984	0.001478952	11/2/2026	10/30/2026
Proj00024-3UG-UGAS	-0.658637606	-0.673654543	-0.689013867	-0.704723383	-0.720791076	-0.737225113	-0.754033845	11/2/2026	10/30/2026
Proj00025-3UG-ALT1								11/2/2026	10/30/2026
Proj00025-3UG-ALT1								11/2/2026	10/30/2026
Proj00025-3UG-ALT1								11/2/2026	10/30/2026
Proj00025-3UG-PAS								11/2/2026	10/30/2026
Proj00025-3UG-PAS	0.003760001	0.003845729	0.003933412	0.004023094	0.00411482	0.004208638	0.004304595	11/2/2026	10/30/2026
Proj00025-3UG-PAS	-1.405929734	-1.437984932	-1.470770989	-1.504304567	-1.538602712	-1.573682853	-1.609562822	11/2/2026	10/30/2026
Proj00025-3UG-UGAS	1.613249973	1.650032073	1.687652804	1.726131288	1.765487081	1.805740187	1.846911063	11/2/2026	10/30/2026
Proj00025-3UG-UGAS								11/2/2026	10/30/2026
Proj00025-3UG-UGAS	0.003760001	0.003845729	0.003933412	0.004023094	0.00411482	0.004208638	0.004304595	11/2/2026	10/30/2026
Proj00025-3UG-UGAS	-1.405929734	-1.437984932	-1.470770989	-1.504304567	-1.538602712	-1.573682853	-1.609562822	11/2/2026	10/30/2026
Proj00026-3UG-ALT1								11/2/2026	10/30/2026
Proj00026-3UG-ALT1								11/2/2026	10/30/2026
Proj00026-3UG-ALT1								11/2/2026	10/30/2026
Proj00026-3UG-PAS								11/2/2026	10/30/2026
Proj00026-3UG-PAS	0.003455415	0.003534198	0.003614778	0.003697195	0.003781491	0.003867709	0.003955893	11/2/2026	10/30/2026
Proj00026-3UG-PAS	-1.970393005	-2.015317966	-2.061267215	-2.108264108	-2.156332529	-2.205496911	-2.255782241	11/2/2026	10/30/2026
Proj00026-3UG-UGAS	2.16238999	2.211692482	2.262119071	2.313695386	2.36644764	2.420402647	2.475587827	11/2/2026	10/30/2026
Proj00026-3UG-UGAS								11/2/2026	10/30/2026
Proj00026-3UG-UGAS	0.003455415	0.003534198	0.003614778	0.003697195	0.003781491	0.003867709	0.003955893	11/2/2026	10/30/2026
Proj00026-3UG-UGAS	-1.970393005	-2.015317966	-2.061267215	-2.108264108	-2.156332529	-2.205496911	-2.255782241	11/2/2026	10/30/2026
Proj00027-3UG-ALT1								11/2/2026	10/30/2026
Proj00027-3UG-ALT1								11/2/2026	10/30/2026
Proj00027-3UG-ALT1								11/2/2026	10/30/2026
Proj00027-3UG-PAS								11/2/2026	10/30/2026
Proj00027-3UG-PAS	0.001375863	0.001407232	0.001439317	0.001472134	0.001505698	0.001540028	0.001575141	11/2/2026	10/30/2026
Proj00027-3UG-PAS	-0.643361127	-0.658029761	-0.673032839	-0.688377988	-0.704073006	-0.72012587	-0.73654474	11/2/2026	10/30/2026
Proj00027-3UG-UGAS	0.701587614	0.717583812	0.733944723	0.750678663	0.767794136	0.785299842	0.803204679	11/2/2026	10/30/2026
Proj00027-3UG-UGAS								11/2/2026	10/30/2026
Proj00027-3UG-UGAS	0.001375863	0.001407232	0.001439317	0.001472134	0.001505698	0.001540028	0.001575141	11/2/2026	10/30/2026
Proj00027-3UG-UGAS	-0.643361127	-0.658029761	-0.673032839	-0.688377988	-0.704073006	-0.72012587	-0.73654474	11/2/2026	10/30/2026
Proj00028-3UG-ALT1								11/2/2026	10/30/2026
Proj00028-3UG-ALT1								11/2/2026	10/30/2026
Proj00028-3UG-ALT1								11/2/2026	10/30/2026
Proj00028-3UG-PAS								11/2/2026	10/30/2026
Proj00028-3UG-PAS	0.007592767	0.007765882	0.007942945	0.008124044	0.008309272	0.008498723	0.008692494	11/2/2026	10/30/2026
Proj00028-3UG-PAS	-1.706327711	-1.745231983	-1.785023272	-1.825721803	-1.86734826	-1.9099238	-1.953470063	11/2/2026	10/30/2026
Proj00028-3UG-UGAS	2.269558503	2.321304437	2.374230178	2.428362626	2.483729294	2.540358322	2.598278491	11/2/2026	10/30/2026
Proj00028-3UG-UGAS								11/2/2026	10/30/2026
Proj00028-3UG-UGAS	0.003024803	0.003093769	0.003164307	0.003236453	0.003310244	0.003385718	0.003462912	11/2/2026	10/30/2026
Proj00028-3UG-UGAS	-1.706327711	-1.745231983	-1.785023272	-1.825721803	-1.86734826	-1.9099238	-1.953470063	11/2/2026	10/30/2026