



Erik Jacobson
Director
Regulatory Relations

Pacific Gas and Electric Company
77 Beale St., Mail Code B13U
P.O. Box 770000
San Francisco, CA 94177

Fax: 415-973-3582

September 14, 2020

Advice 5948-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: I.17-06-027 Revised Track 1 Work Plan in Compliance with D.20-07-004

Purpose

This submittal is made in compliance with Ordering Paragraph (OP) 3 of California Public Utilities Commission (CPUC or Commission) Decision (D.) 20-07-004, which reviewed the utilities' Track 1 work plans in OII (I.) 17-06-027. The Decision approved PG&E's workplan (OP 1) with modifications required in OP 2. OP 3 required that PG&E submit its modified Track 1 work plan by a Tier 2 Advice Letter for review by the Energy Division.

PG&E's modified work plan is provided as Attachment 1 to this Advice letter.

This submittal will not affect any other rate or charge, cause the withdrawal of service, or conflict with any other rate schedule or rule.

Protests

*****Due to the COVID-19 pandemic and the shelter at home orders, PG&E is currently unable to receive protests or comments to this advice letter via U.S. mail or fax. Please submit protests or comments to this advice letter to EDTariffUnit@cpuc.ca.gov and PGETariffs@pge.com*****

Anyone wishing to protest this submittal may do so by letter sent via U.S. mail, facsimile or E-mail, no later than October 5, 2020 which is 21 days¹ after the date of this submittal. Protests must be submitted to:

¹ The 20-day protest period concludes on a weekend; therefore, PG&E is moving this date to the following business day.

CPUC Energy Division
ED Tariff Unit
505 Van Ness Avenue, 4th Floor
San Francisco, California 94102

Facsimile: (415) 703-2200
E-mail: EDTariffUnit@cpuc.ca.gov

Copies of protests also should be mailed to the attention of the Director, Energy Division, Room 4004, at the address shown above.

The protest shall also be sent to PG&E either via E-mail or U.S. mail (and by facsimile, if possible) at the address shown below on the same date it is mailed or delivered to the Commission:

Erik Jacobson
Director, Regulatory Relations
c/o Megan Lawson
Pacific Gas and Electric Company
77 Beale Street, Mail Code B13U
P.O. Box 770000
San Francisco, California 94177

Facsimile: (415) 973-3582
E-mail: PGETariffs@pge.com

Any person (including individuals, groups, or organizations) may protest or respond to an advice letter (General Order 96-B, Section 7.4). The protest shall contain the following information: specification of the advice letter protested; grounds for the protest; supporting factual information or legal argument; name, telephone number, postal address, and (where appropriate) e-mail address of the protestant; and statement that the protest was sent to the utility no later than the day on which the protest was submitted to the reviewing Industry Division (General Order 96-B, Section 3.11).

Effective Date

PG&E requests that this Tier 2 advice submittal become effective on regular notice, October 14, 2020, which is 30 calendar days after the date of submittal.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the

Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter submittals can also be accessed electronically at: <http://www.pge.com/tariffs/>.

/S/

Erik Jacobson
Director, Regulatory Relations

Attachment

cc: I.17-06-027 Service List



ADVICE LETTER SUMMARY

ENERGY UTILITY



MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No.: Pacific Gas and Electric Company (ID U39E)

Utility type:

- ELC GAS WATER
 PLC HEAT

Contact Person: Kimberly Loo

Phone #: (415)973-4587

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: KELM@pge.com

EXPLANATION OF UTILITY TYPE

ELC = Electric GAS = Gas WATER = Water
 PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 5948-E

Tier Designation: 2

Subject of AL: I.17-06-027 Revised Track 1 Work Plan in Compliance with D.20-07-004

Keywords (choose from CPUC listing): Compliance

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: D.20-07-004

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: No

Summarize differences between the AL and the prior withdrawn or rejected AL:

Confidential treatment requested? Yes No

If yes, specification of confidential information:

Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information:

Resolution required? Yes No

Requested effective date: 10/14/20

No. of tariff sheets: 0

Estimated system annual revenue effect (%): N/A

Estimated system average rate effect (%): N/A

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: N/A

Service affected and changes proposed¹: N/A

Pending advice letters that revise the same tariff sheets: N/A

¹Discuss in AL if more space is needed.

Protests and all other correspondence regarding this AL are due no later than 20 days after the date of this submittal, unless otherwise authorized by the Commission, and shall be sent to:

CPUC, Energy Division
Attention: Tariff Unit
505 Van Ness Avenue
San Francisco, CA 94102
Email: EDTariffUnit@cpuc.ca.gov

Name: Erik Jacobson, c/o Megan Lawson
Title: Director, Regulatory Relations
Utility Name: Pacific Gas and Electric Company
Address: 77 Beale Street, Mail Code B13U
City: San Francisco, CA 94177
State: California Zip: 94177
Telephone (xxx) xxx-xxxx: (415)973-2093
Facsimile (xxx) xxx-xxxx: (415)973-3582
Email: PGETariffs@pge.com

Name:
Title:
Utility Name:
Address:
City:
State: District of Columbia Zip:
Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

Advice 5948-E
September 14, 2020

Attachment 1

PG&E's Track 1 Work Plan



PG&E Track 1 Work Plan 9/14/2020

1. Goal and Objective

Pursuant to Ordering Paragraph 3 of the Commission's Decision 20-07-004, PG&E submits this modified report to address the Track 1 requirement and pole data items.

PG&E's goal is to provide all third party registered users with on-line access to all of the required Track 1 Pole Attribute(s)/Information.

The objective is for PG&E to modify/update its current Web Portal User Interface that allows all registered users the ability to log into the PG&E JUMP (Joint Use Map Portal or the Data Portal) system to:

1. Provide all PG&E owned and Joint Owned pole data information to all users.
2. Provide pole information on-line
3. Provide geo-spatial maps to help locate the selected pole(s) via several methodologies,
 - a. Street Address
 - b. Pole Number
 - c. Latitude/Longitude
 - d. Pole Intent Number
4. Provide the capability to copy/save/print any information obtained via the PG&E JUMP Web Portal.
5. To meet this objective, PG&E will participate in a working group comprised of the five pole owners to reach a consensus recommendation for the data elements that will use common data definitions. The working group will also reach an agreement on the definitions of the terms in the data glossary, working in groups to determine what they currently define as the same and what they define differently. This task will continue as the Investigation moves into Track 2.
6. Incorporate a data glossary into the JUMP portal.
 - a. The purpose of the data glossary is to identify and document data fields provided in the data portal, including a short description to include data format, data field type and other metadata that will enable users to understand and use the data.
 - b. The portal shall include the Data Glossary, and wherever feasible, the terms in the glossary shall be pulled from the agreed-upon glossary by the five pole owners.
 - c. No terms in the glossary shall contradict terms defined in the Commission's General Orders.
7. All 10 pole datapoints of pole data for jointly and solely-owned poles shall be provided through the JUMP portal unless the datapoints are specifically allowed to be "if available" AND are not available. Data for the ten data-fields must be searchable and exportable as machine readable data and through the web base interactive portal. The Data for the 10 pole data elements shall include the following:
 - i. A unique identifier of pole includes, at a minimum and be each service territory, a pole number and address (either street or some other easily identifiable address system) on a Geospatial map and should be included in the database.

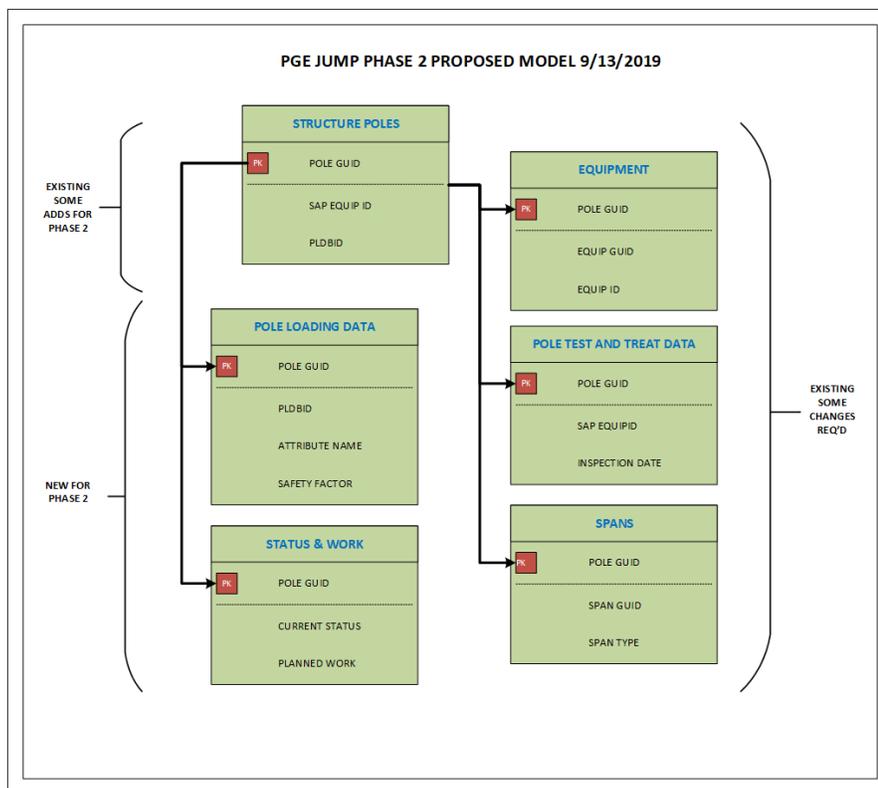


- ii. The Geographic Information System accessible to attachers, pole owners, and Commission staff which includes the latitude/longitude coordinates, address (if available), and service territory for locating the poles.
 - iii. The High Fire District tiers where the pole is located.
 - iv. The poles' class, height, tree species, material circumference, and latest loading information.
 - v. The year the pole was installed.
 - vi. The Joint Pole ownership information including the name of joint owners and percentage of ownership of the pole.
 - vii. Intrusive test data including the date of last intrusive test, type of test, results of the test, and any corrective action that has been or will be taken in response to the test.
 - viii. The number and date of each attachment application, and pole loading information, if any.
 - ix. Notice of pending pole replacement or reinforcement including the reason for the replacement or reinforcement, the proposed scope of work, and the estimated date of completion.
 - x. Information on buddy poles, including an indication of whether the pole owner wishes to remove a buddy pole and the date of removal.
8. To meet this objective, PG&E will participate in a working group comprised of the 5 pole owners to develop a consensus recommendation for the method to be used for sharing or synchronizing data for the ten key data elements related to jointly-owned poles with the other joint pole owner(s).
 9. All 10 datapoints must be searchable by two years from the issuance of the Commission's Decision 20-07-004 via the pole owners Data Portals, including by pole number, latitude/longitude or Address location.
 10. If poles in the Data Portal do not have locational and identifying information, this capability must be implemented in some form by two years from the Commission's Decision 20-07-004, without exception.
 11. The Data Portal shall allow for selecting and viewing multiple poles on a geospatial map using polygons and multi-pole selection capabilities.
 12. The Data Portal shall display the 10 pole data points for selected poles and allow the information to be viewed and exportable as a machine readable data for at least 10 poles by year one from the data of this decision and for at least 100¹ poles by two years from the date of the Commission's Decision 20-07-004.

¹ Decision 20-07-004 language indicates "1,00" locations required; after discussions with the peer utilities, we understand this should refer to "100."



The PG&E JUMP program currently reports a number of key pole attributes. Below is a simplified data schematic/figure/diagram that includes current and planned fields for JUMP Phase 2.



A sample of key pole fields that JUMP currently displays are listed below.

- | | | |
|-------------------------|--|---------------------------------|
| 1. Pole Class | 8. Pole Circumference | 15. Ground Level Shell Avg |
| 2. Pole Height | 9. Effective Circumference | 16. Below Ground Shell Avg |
| 3. Pole Species | 10. Percent Remaining Strength* | 17. Wood Strength |
| 4. SAP Equipment ID# | 11. Pole Work Status | 18. Inspection Result Pass/Fail |
| 5. Pole Install Date | 12. Visit Date | |
| 6. Circuit Voltage | 13. Inspection Type | |
| 7. Last Inspection Date | 14. Test Issues | |

*Note: Percent Remaining Strength will be removed from the JUMP report in JUMP Phase 2.

PG&E has reviewed the Track 1 proposed requirements and has determined that it can provide most of the data requested below and to be reviewed by JUMP with a few caveats.

1. High Fire Threat and District and Tier Category. PG&E already reports this attribute in the Support Structure Data provided in JUMP and will continue to do so.

2. Name of any Other Joint Owner(s); percentage Ownership of each Joint Owner.
PG&E/JUMP will be able to provide the names of the other Joint Owners.
3. Number of Pending Attachment Application(s) if any, and/or make-ready work.
PG&E/JUMP will be able to provide the number of Pending Attachments along with the date that Attachment was requested. The names of the Attachment requestors will remain confidential.
4. Notice of any Pending Pole Replacement/Reinforcement and Date
PG&E/JUMP will be able to provide the Pending Pole Replacement/Reinforcement and Date.
5. Buddy Pole Information:
 - a. Identification of Incomplete Pole Transfer Situation
 - b. Date of Second Pole Install
 - c. Identification of Parties with Attachments on Old Pole

This will take significant work. PG&E does currently track Buddy Poles but the ability to automatically pull the information and place into JUMP will need to be explored and developed.

2. How does JUMP currently work?

The Joint Use Map Portal (JUMP) allows authorized users to access PG&E's intrusive testing data and the facilities information that is necessary to perform pole loading calculations. The information can be downloaded or printed for use in conducting loading calculations required to meet CPUC GO 95 and Northern California Joint Pole Association (NCJPA) pole attachment requirements.

JUMP Users can only access PG&E provided data at this time. Going forward, PG&E hopes to work with other Utility companies to pull data into JUMP and report as much information as possible. This is currently in the discussion phase for logistics and possibilities.

3. How will the work be accomplished?

PG&E will add the new Track 1 requirements to the current JUMP program. PG&E will assign a Project Manager and a Project team to meet the new Track Requirements and the deadlines assigned.

PG&E is planning on additional enhancements on the JUMP Platform. For example, improving accessibility to all the information that is currently available in JUMP.

4. Track 1 Workshop Round Table Discussions (8/14/2019)

- Ability to utilize geo spatial maps for pole information. PG&E/JUMP currently provides this function.
- Ability to select more than one pole. PG&E/JUMP currently provides this function.
- Ability to select as many poles as possible or needed. PG&E/JUMP does allow up to 25 poles selected because the current NCJPA Intent (Form 2) allows up to 25 poles. However, the function to increase the number of poles selected is doable and the limit of poles selected will be increased during JUMP Phase 2.
- Ability to inquire by different methodologies i.e., address, Pole number, Intent #, Lat, Long. PG&E/JUMP currently provides this function.
- Access to as much data as possible. Some wanted the utilities to send all field names (not contents) to them and they would decide what they could use and not use. Some wanted the ability to go through the firewall and pull data as needed. This question was asked to every presenter. The PG&E/JUMP report currently list roughly 136 pole, facility, & geographic attributes. PG&E will be refining the report in JUMP Phase 2 to improve accessibility to all already available data in support of modeling.
- To build and share universal pole definitions across the state utilities. For example, Pole height vs Pole Length terminology, the whole pole or just above ground? The ability to communicate between Utilities with a common language must be utilized. PG&E recognizes this as potential improvement and has begun creating an internal definition list of the available pole attributes and locations in the PG&E/JUMP report. PG&E supports creating a data definition dictionary to support pole data sharing across utilities. See simplified schema diagram above in Goals & Objectives section.
- Ability to see any other work in progress by other applicants. PG&E is working to provide this information of current work in progress. Will be part of JUMP Phase 2.
- Ability to access information 24/7 365. Some wanted to stick with the 24 hour window for providing information not counting weekends/holidays. PG&E/JUMP currently provides this function on-line.

Questions to PG&E:

- How are poles with missing pole tags identified? All PG&E poles are assigned an SAP#. If a pole is replaced a new SAP# is assigned.
- What does pole height or pole length describe? PG&E uses the term “Pole Height” which includes the length of the whole pole from “end to end” regardless if above or below ground.
- Is information for transmission poles with foundations available – only in some locations through JUMP
- Is strength information available for non-wood pole(s) (composite, steel, etc.)?
 - Material strength specifications for non-wood pole(s) are unique to each company – PG&E currently indicates if pole(s) are non-wood in JUMP
 - PG&E concurs with SCE. Pole loading information is likely a matter for Track 2

- Is a ‘Glossary of Terms’ available? PG&E is currently working on a list of all definitions provided in the JUMP reports. The idea of sharing the Glossary of Terms with other utilities is still being explored. See simplified schema diagram above in Goals & Objectives section above.
- How much information should be provided for pending attachments? PG&E will be able to report this as part of Track 1. If a pending attachment is on record, PG&E will report yes or no. If there is more than one pending attachment, PG&E will report the number of pending attachments.
- Are there other pole attributes that should be made available as Track 1 info? PG&E believes the current list of Track 1 pole attributes is sufficient.
- Is historical pole loading data submitted by attachers available for viewing? PG&E believes the Pole loading information is likely a matter for Track 2.
- [Post 9/4/19 Workshop] PG&E has received a volume of requests to see PTT results from ad-hoc inspections; ad-hoc PTT inspection results will be in scope for JUMP Phase 2 (both ad-hoc from PGE and from Other Utilities).

5. Milestones

Pursuant to Ordering Paragraph 4 of D. 20-07-004, initial electronic access to the pole data of PG&E to the newly expanded and/or created data portal shall be available with one year of the date of the Commission’s Decision.

Pursuant to Ordering Paragraph 3(k), the Data Portals shall display the 10 pole data points for selected poles and allow the information to be viewed and exportable as machine readable data for at least 10 poles by one year from the date of the Commission’s Decision and for at least 100 poles by two years from the date of the Commission’s Decision.

6. Data Requirements

PG&E currently uses GeoMart X, GIS and SAP to provide Geo-Spatial and Attribute Data for JUMP.

7. Accessibility and Security of Pole/Conduit Data:

PG&E will follow its current Accessibility and Security protocol that is currently used in JUMP for Pole/Conduit Data. All JUMP users must be pre-registered and have a signed NDA on record with PG&E.

8. Data Collection

PG&E will utilize the current data collection process used for JUMP to pull all the attributes from various sources into the JUMP program. PG&E will continue to collaborate with other utilities to improve the information sharing process.

9. Implementation

PG&E will follow the same protocol used to release JUMP Phase 1. A pilot will be utilized to test the new updates to JUMP Phase 2 prior to full release.

PG&E will meet the required Track 1 required time tables.

PG&E will provide communication/training and support for all JUMP Phase 2 Track 1 additions.

PG&E will update current Procedures and Standards for JUMP Phase 2 accordingly.

PG&E's cost estimates for Track 1 updates vary widely from \$2-8 Million given the significant level of system integration required with enterprise work management platforms. Uncertainty is further contributed by the need to implement tracking and maintenance of new data fields and the associated statuses of each item (such as pending facility transfers).

Furthermore, these cost estimates are at the concept level; PG&E's IT project methodology generates refined project cost estimates as a part of the Plan/Analyze project phase, which is not yet completed.

**PG&E Gas and Electric
Advice Submittal List
General Order 96-B, Section IV**

AT&T	Downey & Brand	Pioneer Community Energy
Albion Power Company	East Bay Community Energy	Redwood Coast Energy Authority
Alcantar & Kahl LLP	Ellison Schneider & Harris LLP	Regulatory & Cogeneration Service, Inc.
Alta Power Group, LLC	Energy Management Service	SCD Energy Solutions
Anderson & Poole	Engineers and Scientists of California	
Atlas ReFuel	GenOn Energy, Inc.	SCE
BART	Goodin, MacBride, Squeri, Schlotz & Ritchie	SDG&E and SoCalGas
Barkovich & Yap, Inc.	Green Power Institute	SPURR
California Cotton Ginners & Growers Assn	Hanna & Morton	San Francisco Water Power and Sewer
California Energy Commission	ICF	Seattle City Light
California Public Utilities Commission	IGS Energy	Sempra Utilities
California State Association of Counties	International Power Technology	Southern California Edison Company
Calpine	Intestate Gas Services, Inc.	Southern California Gas Company
Cameron-Daniel, P.C.	Kelly Group	Spark Energy
Casner, Steve	Ken Bohn Consulting	Sun Light & Power
Cenergy Power	Keyes & Fox LLP	Sunshine Design
Center for Biological Diversity	Leviton Manufacturing Co., Inc.	Tecogen, Inc.
Chevron Pipeline and Power	Los Angeles County Integrated	TerraVerde Renewable Partners
City of Palo Alto	Waste Management Task Force	Tiger Natural Gas, Inc.
City of San Jose	MRW & Associates	TransCanada
Clean Power Research	Manatt Phelps Phillips	Troutman Sanders LLP
Coast Economic Consulting	Marin Energy Authority	Utility Cost Management
Commercial Energy	McKenzie & Associates	Utility Power Solutions
Crossborder Energy	Modesto Irrigation District	Water and Energy Consulting Wellhead
Crown Road Energy, LLC	NLine Energy, Inc.	Electric Company
Davis Wright Tremaine LLP	NRG Solar	Western Manufactured Housing
Day Carter Murphy	Office of Ratepayer Advocates	Communities Association (WMA)
Dept of General Services	OnGrid Solar	Yep Energy
Don Pickett & Associates, Inc.	Pacific Gas and Electric Company	
Douglass & Liddell	Peninsula Clean Energy	