PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigation Plans Discovery 2022
Data Response

PG&E Data Request No.:	OEIS_008-Q06		
PG&E File Name:	WMP-Discovery2022_DR_OEIS_008-Q06		
Request Date:	April 1, 2022	Requester DR No.:	OEIS-P&GE-22-008
Date Sent:	April 6, 2022	Requesting Party:	Office of Energy Infrastructure Safety
PG&E Witness:		Requester:	Kevin Miller

SUBJECT: IGNITION TRACKING

QUESTION 06

In PG&E's 2022 WMP update, in section 7.3.7.4, PG&E discloses that it conducted an audit of work tracking databases which identified ignitions which had not been reported, "increasing PG&E's reportable ignition record by 23 percent." Regarding this audit, Energy Safety would like to know:

a. Was any type of internal report on the audit prepared?
    i. If so, please provide a copy.
b. PG&E's WMP update states that the audit led to "several corrective actions" but does not describe them – what were those specific actions?
c. What is the temporal scope of ignitions not originally reported that were discovered?
d. Does the spatial distribution of discovered ignitions show any pattern (are ignitions that were originally missed concentrated in certain areas, or distributed differently from ignitions that were originally reported?
e. Were the discovered ignitions attributable to a particular cause or set of causes?
f. Was the distribution of causes different for ignitions that were missed compared to those that were originally reported?
g. Were any of PG&E's models that use ignitions as an input re-run with these additional ignitions included? If so, did model results change?
    i. If so, what were any further effects of those changes?
    ii. Did this have any impact on initiative selection?

ANSWER 06

a. Yes.
    i. Please refer to the attached documents "WMP-Discovery2022_DR_OEIS_008-Q06Atch01" and "WMP-Discovery2022_DR_OEIS_008-Q06Atch02."

b. To reduce the occurrence of missed ignitions, the following actions have been taken:
   - PG&E partnered with IT to implement revisions to Field Automation System (FAS) to better self-guide the restoration team to identify ignition events – these enhancements were deployed in June 2021;
   - PG&E partnered with Dispatch and Scheduling on upcoming communications to the field regarding the usage of FAS to capture ignition events;
   - PG&E partnered with the Asset Failure Analysis team on the field data collection improvement pilot;
   - PG&E worked with the academy to implement an annual training requirement related to the use of the CPUC fire tab per our standards (RISK-6306S);
   - PG&E incorporated the review of all potential ignition related FAS tags into the scope of the Ignitions Investigations Team;
   - PG&E revised the RISK 6306-01 standard to include lessons learned from this audit as well as processes related to the ongoing review of FAS for potential missed ignitions.

c. 318 ignitions from 2014 to 2021 were identified that meet reportable ignition criteria.

d. There is no discernable pattern related to the locations of the discovered ignitions compared to the ignitions that were originally reported. The following table shows the distribution of the discovered reportable ignitions by PG&E region:

Division	Count
FRESNO	38
SIERRA	31
NORTH VALLEY	28
YOSEMITE	27
STOCKTON	24
NORTH BAY	22
SONOMA	22
LOS PADRES	21
HUMBOLDT	19
SACRAMENTO	17
CENTRAL COAST	15
KERN	15
SAN JOSE	12
PENINSULA	8
DE ANZA	7
DIABLO	6
MISSION	3
SAN FRANCISCO	2
EAST BAY	1

e. The following table shows the distribution of the discovered reportable ignitions by suspected cause:

Suspected Cause	Count
Contact - 3rd Party	30
Contact - Animal - Bird	29
Contact - Animal - Nest	2
Contact - Animal - Other	7
Contact - Customer (Equip/Structure/Veg)	4
Contamination	2
Equipment - PG&E	127
Utility work / Operation	1
Vegetation	105
Weather - High Wind	5
Weather - Lightning	1
Wire-Wire Contact	5

f. The following table shows the percent distribution of the discovered reportable ignitions by suspected cause compared to the originally reported ignitions between 2014-2021:

Suspected Initiating Cause	Audit Findings	Originally Reported
Contact - 3rd Party	9.4%	16.2%
Contact - Animal - Bird	9.1%	9.0%
Contact - Animal - Nest	0.6%	0.6%
Contact - Animal - Other	2.2%	3.8%
Contact - Customer (Equip/Structure/Veg)	1.3%	0.3%
Contamination	0.6%	0.5%
Equipment - PG&E	39.9%	38.8%
Utility work / Operation	0.3%	1.7%
Unknown	0.0%	0.2%
Vegetation	33.0%	26.9%
Weather - High Wind	1.6%	0.1%
Weather - Lightning	0.3%	0.2%
Wire-Wire Contact	1.6%	1.8%

g. No, the current PG&E Models that are in use to guide the work have not be re-run and so the work plans are not adjusted.

   i. Not applicable.

   ii. No. However, these additional ignitions have been incorporated into the next generation of the Wildfire Distribution Risk Model that is being released this year, to inform the work plans for 2023.