

PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigation Plans
Rulemaking 18-10-007
Data Response

PG&E Data Request No.:	CalAdvocates_043-Q12		
PG&E File Name:	WildfireMitigationPlans_DR_CalAdvocates_043-Q12		
Request Date:	February 25, 2021	Requester DR No.:	CalAdvocates-PGE-2021WMP-09
Date Sent:	March 5, 2021	Requesting Party:	Public Advocates Office
PG&E Witness:		Requester:	Alan Wehrman

SUBJECT: ASSET INSPECTIONS

The following questions related to PG&E's 2021 Wildfire Mitigation Plan (WMP) Update.

QUESTION 12

In attachment 7.3.4_RSE_Input_Template_EO_WLDFR.xlsm, on the worksheet "2-Program Cost," the projected O&M spend for program 7.3.4.1 "Detailed inspections of distribution electric lines and equipment" decreases from \$132.6 million in 2020, to \$95.9 million in 2021, to \$65.9 million in 2022.

- a. State the basis for the projected decrease in O&M spend for program 7.3.4.1 from 2020 to 2022.
- b. Per Table 5.3-1: List and description of program targets, last 5 years, on p. 237, the scope of program 7.3.4.1 is not projected to decrease significantly from 2020 to 2022. State the basis for the implicit representation that the cost per inspection under this program is expected to decrease from 2020 to 2022.

ANSWER 12

- a. The program O&M cost shown in attachment 7.3.4_RSE_Input_Template_EO_WLDFR.xlsm reflect the entire PG&E detailed inspection cost including inspection projects within the HFTD and non-HFTD areas. The reduction in O&M cost over time reflects the following:
 1. Efficiency gains expected with a maturing enhanced inspection process. As an example, PG&E expects the requirement to obtain additional data during the enhanced inspection will reduce over time when the same asset has been inspected multiple times. This will lead to reduced time at each structure and reduced overall program cost.
 2. Reduced contract labor costs are expected over time due to improvements with the mobile technology and bundling of work.
- b. See response to a.

Worksheet "2-Program Cost"

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1		Program Spend from Control File													
2															
3		Risk Name	Wildfire												
4		Risk ID	WLDFR												
5		Control File name													
6		Control File location													
7															
8		Program ID	Program	MAI (optional)	Cap Spend USD	Cap Spend USD	Cap Spend USD	O&M Spend	O&M Spend USD	O&M Spend USD	O&M Spend USD	O&M Spend USD	O&M Spend USD	O&M Spend USD	O&M Spend USD
9		7.3.4.1	Detailed inspections of distribution electric lines and equipment		2024	2025	2026	USD 2020	2021	2022	2023	2024	2025	2026	2027
10		7.3.4.2	Detailed inspections of transmission electric lines and equipment					\$132,613,944.55	\$95,924,435.10	\$65,903,496.46					
11		7.3.4.3	Improvement of inspections					\$89,857,237.17	\$105,104,217.99	\$109,048,312.00					
12		7.3.4.4	Infrared inspections of distribution electric lines and equipment					\$223,843.79	\$14,907.82	\$31,608.22					
13		7.3.4.5	Infrared inspections of transmission electric lines and equipment					\$1,561,335.47	\$2,319,999.28	\$2,319,999.28					
14		7.3.4.6	Intrusive pole inspections					\$1,443,600.00	\$2,219,646.00	\$2,219,646.00					
15		7.3.4.11	Patrol inspections of distribution electric lines and equipment					\$17,446,665.22	\$21,227,065.92	\$21,227,065.92					
16		7.3.4.12	Patrol inspections of transmission electric lines and equipment					\$8,710,220.90	\$9,281,010.86	\$9,281,010.86					
17		7.3.4.13	Pole loading assessment program to determine safety factor					\$47,988.64	\$86,375.40	\$83,683.10					
18		7.3.4.14	Quality assurance / quality control of inspections					\$18,604,307.89	\$14,540,000.00	\$13,094,000.00					
19		7.3.4.15-T	Substation inspections, Enhanced Transmission, Substation					\$1,831,449.21	\$121,973.04	\$258,612.70					
20		7.3.4.15-D	Substation inspections, Enhanced Distribution, Substation					\$11,267,813.40	\$5,226,799.52	\$3,360,180.00					
21								\$9,681,527	\$5,980,623	\$7,394,096					

TABLE 5.3-1: LIST AND DESCRIPTION OF PROGRAM TARGETS, LAST 5 YEARS (CONTINUED)

Program Target	2019 Performance	2020 Performance	Projected Target by end of 2021	Projected Target by end of 2022 ⁽³⁾	Units	Underlying Assumptions	Update Frequency	Third-Party Validation
C.14 - 7.3.3.17.6 - Butte County Rebuild	0	30	23	23	# of miles hardened via undergrounding within Butte county	During the first year 2019 Actuals were incorporated in the System Hardening Program immediately above	Annual	Butte WMP Reportable Miles - 2020 Final
C.15 - 7.3.3.17.2 - System Hardening - Transmission Conductor	40	103	92	111	# of transmission line conductor miles hardened	Some of the mileage may not be in HFTD as some transmission lines traverse both HFTD and non-HFTD areas. Only electric transmission capital project greater than \$1M are in scope. Smaller span reconductoring via maintenance tags is not counted in this overall mileage. 2021 target is adjusted from the original STAR filing to account for potential execution risks.	Annual	STAR Project Data Spreadsheet
D.01 - 7.3.4.1 - Distribution HFTD Inspections (poles)	694,250	100% of Tier 3 & Zone 1 and 33% of Tier 2 (339,728)	100% of Tier 3 & Zone 1 and 33% of Tier 2, plus high consequence Tier 2 structures (~402K)	100% of Tier 3 & Zone 1 and 33% of Tier 2, plus high consequence Tier 2 structures (~395K)	# of overhead distribution structures inspected in HFTD and Buffer Zone "Zone 1"	For WSIP in 2019 we counted the number of inspections, while 2020 and beyond measure the number of poles inspected	Annual	Inspection Records (SAP)
D.02 - 7.3.4.15 - Substation HFTD Inspections (substations)	222	100% of Tier 3 & Zone 1 and 33% of Tier 2 (99)	100% of Tier 3 & Zone 1 and 33% of Tier 2 (100)	100% of Tier 3 & Zone 1 and 33% of Tier 2 (100)	# of substations inspected in Tier 3 and Tier 2 HFTD and adjacent Tier 3 and Tier 2 HFTD.	For WSIP in 2019 we counted the number of inspections, while 2020 and beyond measure the number of substations inspected	Annual	Inspection Records (SAP)
D.03 - 7.3.4.2 - Transmission HFTD Inspections (structures)	49,715	100% of Tier 3 & Zone 1 and 33% of Tier 2 (28,282)	100% of Tier 3 & Zone 1 and 33% of Tier 2 (24,092)	100% of Tier 3 & Zone 1 and 33% of Tier 2 (24,092)	# of structures inspected Tier 2 and Tier 3 HFTD	For WSIP in 2019 we counted the number of inspections, while 2020 and beyond measure the number of structures inspected	Annual	Inspection Records (SAP)