

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

PG&E Data Request No.:	CalAdvocates_035-Q07		
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PG&E Witness:		Requester:	Matthew Yunge, PE

QUESTION 07

For each WMP initiative listed below, please complete Table A below, showing how much of the work you completed in 2020 was performed on distribution circuit-segments in each risk quintile.

- a) EVM
- b) Covered conductor
- c) Pole replacement
- d) Undergrounding
- e) Grid sectionalization
- f) Climbing inspections
- g) Aerial inspections
- h) LiDAR inspections

Table A		
Initiative: _____		
Quintile of circuit-segments, ranked by wildfire risk	Explanation	Amount of Work completed in 2020
0-20	Top quintile of riskiest circuit-segments, which account for the first 20 percent of cumulative wildfire risk	
21-40	Second quintile of riskiest circuit-segments, which account for percentiles 21 to 40 of cumulative wildfire risk	
41-60	Third quintile of riskiest circuit-segments, which account for percentiles 41 to 60 of cumulative wildfire risk	
61-80	Fourth quintile of riskiest circuit-segments, which account for percentiles 61 to 80 of cumulative wildfire risk	
81-100	Last quintile of riskiest circuit-segments, which account for percentiles 81 to 100 of cumulative wildfire risk	
Total	Entire service territory	

ANSWER 07

Circuits with a risk ranking have been included in quintiles in descending order of risk. Wildfire Risk Level is populated through a previous distribution risk model in order to accommodate data since 2018. It has been adapted in order to provide a consistent risk score by circuit. That model was developed for circuits in high fire threat districts (HFTD). Circuits not in HFTDs are labeled as 'Non-HFTD'. For completeness, we have also included circuit mileage that does not fall under a high fire threat district. The information for these Non-HFTD circuits are excluded from the quintile calculations.

For Distribution Climbing and Aerial Inspections (Question 7f.,7g.), inspections are performed from the ground. As a result, we have combined Question 7f. and 7g. The combined number of asset inspections are performed from the ground.

LiDAR inspection mileage has been capped at the length of the circuit thus ignoring inspected mileage for multiple inspections of the same circuit.

Table A		
Initiative: EVM Miles		
Quintile of circuit-segments, ranked by wildfire risk	Explanation	Amount of Work completed in 2020
0-20	Top quintile of riskiest circuit-segments, which account for the first 20 percent of cumulative wildfire risk	476
21-40	Second quintile of riskiest circuit-segments, which account for percentiles 21 to 40 of cumulative wildfire risk	1,048
41-60	Third quintile of riskiest circuit-segments, which account for percentiles 41 to 60 of cumulative wildfire risk	181
61-80	Fourth quintile of riskiest circuit-segments, which account for percentiles 61 to 80 of cumulative wildfire risk	104
81-100	Last quintile of riskiest circuit-segments, which account for percentiles 81 to 100 of cumulative wildfire risk	50
Non-HFTD	Work for circuits in not high fire threat districts and thus without a risk score	13
Total	Entire service territory	1,873

Table A		
Initiative: Covered Conductor Miles		
Quintile of circuit-segments, ranked by wildfire risk	Explanation	Amount of Work completed in 2020
0-20	Top quintile of riskiest circuit-segments, which account for the first 20 percent of cumulative wildfire risk	158
21-40	Second quintile of riskiest circuit-segments, which account for percentiles 21 to 40 of cumulative wildfire risk	129
41-60	Third quintile of riskiest circuit-segments, which account for percentiles 41 to 60 of cumulative wildfire risk	22
61-80	Fourth quintile of riskiest circuit-segments, which account for percentiles 61 to 80 of cumulative wildfire risk	11
81-100	Last quintile of riskiest circuit-segments, which account for percentiles 81 to 100 of cumulative wildfire risk	1
Non-HFTD	Work for circuits in not high fire threat districts and thus without a risk score	4
Total	Entire service territory	325

Table A		
Initiative: Number of Pole Replacements		
Quintile of circuit-segments, ranked by wildfire risk	Explanation	Amount of Work completed in 2020
0-20	Top quintile of riskiest circuit-segments, which account for the first 20 percent of cumulative wildfire risk	2,569
21-40	Second quintile of riskiest circuit-segments, which account for percentiles 21 to 40 of cumulative wildfire risk	2,249
41-60	Third quintile of riskiest circuit-segments, which account for percentiles 41 to 60 of cumulative wildfire risk	459
61-80	Fourth quintile of riskiest circuit-segments, which account for percentiles 61 to 80 of cumulative wildfire risk	117
81-100	Last quintile of riskiest circuit-segments, which account for percentiles 81 to 100 of cumulative wildfire risk	114
Non-HFTD	Work for circuits in not high fire threat districts and thus without a risk score	799
Total	Entire service territory	6,307

Table A		
Initiative: Miles of UG Conductor		
Quintile of circuit-segments, ranked by wildfire risk	Explanation	Amount of Work completed in 2020
0-20	Top quintile of riskiest circuit-segments, which account for the first 20 percent of cumulative wildfire risk	44
21-40	Second quintile of riskiest circuit-segments, which account for percentiles 21 to 40 of cumulative wildfire risk	44
41-60	Third quintile of riskiest circuit-segments, which account for percentiles 41 to 60 of cumulative wildfire risk	22
61-80	Fourth quintile of riskiest circuit-segments, which account for percentiles 61 to 80 of cumulative wildfire risk	11
81-100	Last quintile of riskiest circuit-segments, which account for percentiles 81 to 100 of cumulative wildfire risk	19
Non-HFTD	Work for circuits in not high fire threat districts and thus without a risk score	282
Total	Entire service territory	422

Table A		
Initiative: Number of Sectionalization Devices Installed		
Quintile of circuit-segments, ranked by wildfire risk	Explanation	Amount of Work completed in 2020
0-20	Top quintile of riskiest circuit-segments, which account for the first 20 percent of cumulative wildfire risk	1,975
21-40	Second quintile of riskiest circuit-segments, which account for percentiles 21 to 40 of cumulative wildfire risk	1,856
41-60	Third quintile of riskiest circuit-segments, which account for percentiles 41 to 60 of cumulative wildfire risk	949
61-80	Fourth quintile of riskiest circuit-segments, which account for percentiles 61 to 80 of cumulative wildfire risk	927
81-100	Last quintile of riskiest circuit-segments, which account for percentiles 81 to 100 of cumulative wildfire risk	826
Non-HFTD	Work for circuits in not high fire threat districts and thus without a risk score	6,181
Total	Entire service territory	12,714

Table A		
Initiative: Number of Asset Inspections		
Quintile of circuit-segments, ranked by wildfire risk	Explanation	Amount of Work completed in 2020
0-20	Top quintile of riskiest circuit-segments, which account for the first 20 percent of cumulative wildfire risk	158,187
21-40	Second quintile of riskiest circuit-segments, which account for percentiles 21 to 40 of cumulative wildfire risk	163,340
41-60	Third quintile of riskiest circuit-segments, which account for percentiles 41 to 60 of cumulative wildfire risk	52,388
61-80	Fourth quintile of riskiest circuit-segments, which account for percentiles 61 to 80 of cumulative wildfire risk	31,462
81-100	Last quintile of riskiest circuit-segments, which account for percentiles 81 to 100 of cumulative wildfire risk	24,536
Non-HFTD	Work for circuits in not high fire threat districts and thus without a risk score	246,807
Total	Entire service territory	676,720

Table A		
Initiative: Miles of LiDAR Inspection		
Quintile of circuit-segments, ranked by wildfire risk	Explanation	Amount of Work completed in 2020
0-20	Top quintile of riskiest circuit-segments, which account for the first 20 percent of cumulative wildfire risk	277
21-40	Second quintile of riskiest circuit-segments, which account for percentiles 21 to 40 of cumulative wildfire risk	474
41-60	Third quintile of riskiest circuit-segments, which account for percentiles 41 to 60 of cumulative wildfire risk	454
61-80	Fourth quintile of riskiest circuit-segments, which account for percentiles 61 to 80 of cumulative wildfire risk	438
81-100	Last quintile of riskiest circuit-segments, which account for percentiles 81 to 100 of cumulative wildfire risk	540
Non-HFTD	Work for circuits in not high fire threat districts and thus without a risk score	685
Total	Entire service territory	2,867