

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

PG&E Data Request No.:	CalAdvocates_049-Q01		
PG&E File Name:	WildfireMitigationPlans_DR_CalAdvocates_049-Q01		
Request Date:	March 3, 2021	Requester DR No.:	CalAdvocates-PGE-2021WMP-15
Date Sent:	March 9, 2021	Requesting Party:	Public Advocates Office
PG&E Witness:		Requester:	Alan Wehrman

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

QUESTION 01

In response to data requests in CalAdvocates-PGE-2021WMP-01, Question 4, PG&E provided “WildfireMitigationPlans_DR_CalAdvocates_035-Q04-Atch01.xlsx.” This spreadsheet includes the risk level for each distribution circuit as determined by the distribution risk model developed in 2018.¹

- a. Please provide an amended version of this spreadsheet including, in a new column, the risk level associated with each distribution circuit, as determined by the current 2021 Wildfire Distribution Risk Model.
- b. Do distribution circuits have multiple risk levels under the current 2021 Wildfire Distribution Risk Model? For example, would circuits have different risk levels associated with vegetation risk and equipment risk?
- c. If the answer to part (b) is yes, please include all risk levels in separate columns for each distribution circuit.
- d. If the answer to part (b) is yes, please provide a brief description for each such risk ranking.

ANSWER 01

- a. Wildfire mitigation workplans are developed with input from the 2021 Wildfire Distribution Risk Model measuring risk at the circuit segment level. Presenting a circuit level risk value, as requested, will not be representative of the information that was used to develop workplans. Thus, PG&E will not be able to provide the requested information for each distribution circuit.

¹ “Wildfire Risk Level is populated using the distribution risk model developed in 2018 as this was the primary model used to prioritize work from 2018-2020. That risk model was developed for circuits in high fire threat districts. Circuits not in high fire threat districts do not have a risk score via that model and are labeled as ‘Non-HFTD’. Note also that some activities, including enhanced vegetation management, actually used further customized risk models for prioritizing work during this 2018-2020 period.” PG&E’s response to CalAdvocates-PGE-2021WMP-01 Question 4.

- b. Yes, the circuit segment level risk values are available for vegetation risk and equipment risk.
- c. See part a
- d. As explained in PG&E 2021 WMP on page 96, the focus on the risk modeling and the resulting mitigation initiatives is on the vegetation and equipment failure modes as they represent a high percentage of the overall ignitions by cause. To do this, PG&E characterizes wildfire risk as:

$$\text{Risk} = \text{Ignition Probability} \times \text{Wildfire Consequence}$$

Evaluating risk using the formula above allows for the development of individual models by failure mode by modeling the ignition probability side of the question. The 2021 Wildfire Distribution Risk includes the Equipment Probability of Ignition Model the Vegetation Probability of Ignition Model that when combined with the Wildfire Consequence Model result in single risk levels for vegetation and equipment related events.

PG&E 2021 WMP pages 101 through 103 provide a more detailed description of the Vegetation Probability of Ignition and the Equipment Probability of Ignition Models.