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

PG&E Data Request No.:	CalAdvocates_049-Q02		
PG&E File Name:	WildfireMitigationPlans_DR_CalAdvocates_049-Q02Rev01		
Request Date:	March 3, 2021	Requester DR No.:	CalAdvocates-PGE-2021WMP-15
Date Sent:	March 8, 2021 Rev01: March 10, 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 02

In response to data requests in CalAdvocates-PGE-2021WMP-01, Question 5, PG&E provided "WildfireMitigationPlans_DR_CalAdvocates_035-Q04-Atch01.xlsx." This spreadsheet includes the risk level for each transmission line as determined by the distribution risk model developed in 2018.[1]

a. Please provide an amended version of this worksheet including, in a new column, the risk level associated with each transmission line, as determined by current 2021 risk models and methods.

b. Do transmission lines have multiple risk levels under the current 2021 risk models and methods? For example, would lines 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 transmission line.

d. If the answer to part (b) is yes, please provide a brief description for each such risk ranking.

ANSWER 02 REVISED 01

PG&E is revising the response to subpart (a) for clarity. The response below includes the revised language for subpart (a). The remainder of this response has not been revised.

ANSWER 02

With regard to risk modeling for transmission facilities, PG&E explained in Section

[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'." PG&E's response to CalAdvocates-PGE-2021WMP-01 Question 5.

7.3.1.1 of the 2021 WMP:

> For our electric transmission system, PG&E can produce various maps by asset, but none offer a fully comprehensive risk view of ignition probability and wildfire consequences for transmission lines. PG&E does have modeling capabilities for transmission facilities, but these capabilities do not yet include multiple consequences (e.g., public safety, wildfire, environment, etc.) and multiple failure modes (e.g., wind, third party, asset failure, etc.). PG&E does have a full asset failure probability model for windy conditions (*i.e.*, the Transmission Operability Assessment Model or "OA Model"), which it is combining with the wildfire consequence model. PG&E intends to develop additional risk mapping capabilities and tools for transmission assets in 2021, as described below in response to Question #5 regarding future improvements.

Thus, while PG&E did perform transmission circuit ranking in 2020 for investment planning purposes, it does not currently have risk modeling that can provide "a fully comprehensive risk view of ignition probability and wildfire consequences for transmission lines." With this in mind, the responses below are with regard to PG&E's 2020 circuit risk ranking.

a. Attached is "WildfireMitigationPlans_DR_CalAdvocates_049-Q02Atch01.xlsx" column Z labeled "2020 Circuit Risk Rank" was added. This is a 1-N relative risk ranking of transmission lines identified in Column B (where lower ranked numbers indicate higher relative risk). This ranking was used to inform PG&E's planning process, and considers the following five risk factors: PSPS, safety, wildfire, reliability and commitment/capacity. However, the 2020 circuit ranks were not used extensively for the 2020 planning process. This ranking was created mid-2020 and has not yet been refreshed for 2021. This ranking is not derived from the information included in Columns C through Y and is not a part of a 2020 or 2021 risk model per se. The 2022 Wildfire Transmission Risk Model will provide improved capabilities for informing transmission investment planning going forward.

b. There can be different levels of risk ranking depending on the scenario under review. For example, we do have vegetation LiDAR risk, which are used primarily for PSPS and PSPS mitigation planning.

c. Only the circuit risk rank was included for this data request. While PG&E may have other probability or consequence data (such as the vegetation LiDAR risk), it is not yet combined in a full, comprehensive risk-based model as described in the 2021 WMP Section 7.3.1.1.

d. The circuit risk rank provided is a relative 1-N ranking of transmission lines, see part (a) above.