

**PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigation Plans Discovery 2023
Data Response**

PG&E Data Request No.:	CalAdvocates_028-Q017		
PG&E File Name:	WMP-Discovery2023_DR_CalAdvocates_028-Q017		
Request Date:	August 10, 2023	Requester DR No.:	CalAdvocates-PGE-2023WMP-28
Date Sent:	August 15, 2023	Requesting Party:	Public Advocates Office
PG&E Witness:		Requester:	Holly Wehrman

RN-PG&E-23-05

QUESTION 017

Table RN-PG&E-23-05-2 on page 72 of PG&E's response compares the mileage in the top 20% of WFE, the top 20% of WDRM v3, and the top 20% of WDRM v2.

It is our understanding (from PG&E's response to ACI PG&E-22-34 in its 2023-2025 WMP) that the list of circuit segments ranked by WFE is based on the risk score from WDRM v3 and the feasibility score of undergrounding. In other words, in the formula below, the WDRM v3 risk score appears in the numerator and the feasibility of undergrounding appears in the denominator:

$$WFE\ Score = \frac{Line\ Weighted\ Risk\ per\ Mile}{Feasibility\ Cost\ Multiplier}$$

- a) Please confirm or correct the understanding stated above.
- b) Does the list of circuit segments ranked by WFE incorporate risk scores from WDRM v2? If yes, describe how so.

ANSWER 017

- a) The understanding stated above is correct, the WFE score is based on the WDRM v3 risk model. As noted in the formula pasted above, the numerator of the WFE score is the line-weighted risk value per mile from the WDRM v3 risk model, which is not completely identical to the "mean risk score" from the WDRM v3. At a high level, the purpose of both is to represent the normalized risk for each circuit segment. Mean risk is the average risk per pixel, or the summation of risk score along the circuit segment and dividing that by the number of pixels the line passes through. Line-weighted risk per mile accounts for the length of the unhardened line that crosses within a pixel and normalizes across the risk on each pixel based on the volume of line mileage crossing each pixel to a line weighted risk score per mile. This technical difference in representing risk captures changes in hardened and unhardened miles within a circuit segment.
- b) No. All circuit segments were ranked by WFE based on the WDRM v3 model results.

