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

PG&E Data Request No.:	TURN_009-Q001		
PG&E File Name:	WMP-Discovery2023_DR_TURN_009-Q001		
Request Date:	April 26, 2023	Requester DR No.:	TURN-PG&E-9
Date Sent:	May 1, 2023	Requesting Party:	The Utility Reform Network
DRU Index #:		Requester:	Tom Long

SUBJECT: SYSTEM HARDENING

QUESTION 001

Regarding the 2023-2026 Undergrounding Workplan referenced on page 910 of the WMP (R1) and provided in Excel format in response to TURN Data Request 2-4:

a.   For each undergrounding project listed in this document, please provide the RSE calculated in accordance with the CPUC's S-MAP Settlement (see pp. 242 et seq of PG&E's WMP-R1) (not SWRSE or WFE) that PG&E calculated for the undergrounding project. Please provide all inputs and calculations for these RSE values, in live Excel format.

b.   For each undergrounding project listed in this document, please provide the RSE calculated in accordance with the CPUC's S-MAP Settlement (see pp. 242 et seq of PG&E's WMP-R1) that PG&E calculated for any alternative mitigation for the project location, including but not limited to covered conductor. Please provide all inputs and calculations for these RSE values, in live Excel format.

ANSWER 001

a)   As explained on page 968 of the 2023-2025 WMP, PG&E developed a measurement described in the 2022 Revised WMP as the Simplified Wildfire Risk Spend Efficiency (SWRSE) or Wildfire Feasibility Efficiency (WFE) to identify where PG&E could most efficiently reduce risk given the terrain feasibility at a particular location due to the presence of hard rock, large water crossings, and/or gradient. PG&E calculates the SWRSE as follows:

$$SWRSE = \frac{Wildfire\ Risk}{Cost} = \frac{Wildfire\ Risk}{Standard\ Cost * Feasibility\ Score}$$

While in practice the standard cost per mile of undergrounding is expected to decline over time, PG&E assumed it to be fixed at 1 for all circuit segments so that the selection is only driven by feasibility and risk. This defines the WFE Score:

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

PG&E's WFE scores incorporate the elements of RSE calculations with the feasibility element used to modify the spend factor to account for operational and executability factors. PG&E has calculated WFE scores for individual circuit segments and have given that information to TURN in response to Data Request 7, Question 1 ("*WMP-Discovery2023_DR_TURN_007-Q001Atch01CONF.xlsx*"). PG&E does not have any other RSE calculations matching the CPUC's S-MAP Settlement for each underground project listed in its workplan.

Specific to more granular level assessments at the circuit segment level, WMP guidelines required risk reduction (not RSE) based on 2023-2025 workplans. Those risk reduction values are provided in workpaper "2023-03-27_PGE_2023_WMP_R2_Section 6.4.2" which was provided in response to TURN Data Request 8, Question 1 as "*WMP-Discovery2023_DR_TURN_008-Q001Atch02.xlsb.*"

b) As explained in response to subpart (a), PG&E has created WFE scores for each circuit segment included in PG&E's undergrounding workplan. These scores incorporate the elements of RSE calculations with the added element of feasibility to account for operational and executability factors. PG&E does not have separate RSE calculations matching the CPUC's S-MAP Settlement for each project alternative listed in the document.

Specific to more granular level assessments at the circuit segment level, WMP guidelines require risk reduction (not RSE) based on 2023-2025 workplans. Those risk reduction values are provided in workpaper "2023-03-27_PGE_2023_WMP_R2_Section 6.4.2" which was provided in response to TURN Data Request 8, Question 1 as "*WMP-Discovery2023_DR_TURN_008-Q001Atch02.xlsb.*"