

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

PG&E Data Request No.:	TURN_007-Q004		
PG&E File Name:	WMP-Discovery2023_DR_TURN_007-Q004		
Request Date:	April 21, 2023	Requester DR No.:	TURN-PG&E- 7
Date Sent:	April 26, 2023	Requesting Party:	The Utility Reform Network
DRU Index #:		Requester:	Tom Long

**SUBJECT: SYSTEM HARDENING**

**QUESTION 004**

Regarding Attachment 2023-03-27\_PGE\_2023\_WMP\_R1\_Section 6.4.2\_Atch01, which is referenced on page 195, fn. 77 of the WMP (R1):

- a. Please provide a version of this Excel workbook that includes the same information for all of PG&E's HFTD circuit segments, or as many of those segments for which PG&E has such information.
- b. If PG&E has comparable information for its self-identified HFRA segments, please provide that information.
- c. Has PG&E calculated RSEs at the circuit segment level for any of the various mitigations shown in this workbook? If so, which mitigations? Provide those calculated RSEs, preferably as additional columns in the workbook(s) provided in response to "a" and "b".
- d. Regarding the Covered Conductor Mitigation Effectiveness values in Columns U (2022), AE (2023), BP (2024), and DA (2025):
  - i. Please explain how these values were determined.
  - ii. Why are the values for 2023-2025 much lower than the values for 2022?
  - iii. Why do the values differ (slightly) based on circuit segment?
  - iv. Are the values shown the values that are being used in PG&E's process for selecting among different wildfire mitigation techniques (e.g., undergrounding vs. covered conductor) for the listed circuit segments.

**ANSWER 004**

- a) Please see attachment *WMP-Discovery2023\_DR\_TURN\_007-Q002Atch1.xlsb*. Two additional columns N:O were added to this 'TopRisk\_Table' tab and the rows were extended to capture applicable circuit segments. Please note, line items outside of the top 5% risk circuit segments do not have same level of detailed review given the limited time to respond to this request.
- b) Please see attachment *WMP-Discovery2023\_DR\_TURN\_007-Q002Atch1.xlsb*. Two additional columns N:O were added to this 'TopRisk\_Table' tab and the rows

were extended to capture applicable circuit segments. Please note, line items outside of the top 5% risk circuit segments do not have same level of detailed review given the limited time to respond to this request.

- c) RSEs were not a requirement of the 2023-2025 WMP, only risk reduction. The risk reduction is provided in tab "Data\_RR" of "*WMP-Discovery2023\_DR\_TURN\_007-Q002Atch1.xlsb*".
- d) Responses below:
  - i. The values are determined by the subdriver effectiveness against the subdriver probability at each circuit segment.
  - ii. This was an error. The corrected file has been provided in response to Cal Advocates and OEIS data requests and will be corrected in an errata filing on April 26, 2023. The corrected values are used in attachment "*WMP-Discovery2023\_DR\_TURN\_007-Q002Atch1.xlsb*".
  - iii. These values are based on the blended average effectiveness based on the subdriver composition for each circuit segment. As per Table 7-2, the contribution of vegetation, equipment, and contact from object is different for each circuit segment, so the effectiveness varies by location.
  - iv. It is part of the consideration, however, the overall risk reduction benefit is much higher for undergrounding as compared to covered conductor, even after taking into account the variations in covered conductor effectiveness.