

PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigations Plans Discovery 2026-2028
Data Response

PG&E Data Request No.:	SPD_07-Q007
PG&E File Name:	WMP-Discovery2026-2028_DR_SPD_007-Q007
Request Date:	June 2, 2025
Requester DR No.:	SPD-PGE-WMP2026-007
Requesting Party:	Safety Policy Division
Requester:	Edwin Schmitt
Date Sent:	June 5, 2025

SUBJECT: FOLLOW-UP ON MITIGATION EFFECTIVENESS IN 2026-2028 BASE WMP (SPD- PGE-WMP2026-007)

Provide responses to the items listed below.

QUESTION 007

PG&E-8.2.1-2 in the 2026-2028 Base WMP presents one step in the Hybrid Cost Benefit Analysis that states "Input OH/UG alternative scope mileage and unit cost assumptions into Foundry WPC Feedback Loop Tool".

- a. Provide a description of the Foundry WPC Feedback Loop Tool.
- b. Provide a description of any functions or formulas used within the Foundry WPC Feedback Loop Tool.
- c. Provide an example of a circuit segment where the Foundry WPC Feedback Loop Tool was used to determine the ratio of OH and UG that meets the CBR and Net Benefit requirements. For that example circuit segment, list all of the inputs that were submitted to the Foundry WPC Feedback Loop Tool as well as what the final ratio of OH and UG was for that circuit segment.
- d. Provide any documentation that exists on the Foundry WPC Feedback Loop Tool.

ANSWER 007

Note, the Foundry WPC Feedback Loop tool has been initiated and is in the final stages of development in Foundry, however it is not yet ready for use. In the meantime, we are using a preliminary version of this tool in Excel.

- a. The Foundry WPC Feedback Loop Tool will dynamically calculate the Cost Benefit Ratio (CBR) values for each proposed mitigation scenario on a given circuit segment as the scenarios are evaluated through the scoping process.

For example, the WBCA will calculate initial CBR values for a given circuit segment for each mitigation type (100% Underground, 100% Overhead Hardening with EPSS and DCD, and Hybrid Scenario). The WPC Feedback Loop tool will then be

used to re-calculate the CBR values using WBCA inputs along with more detailed mitigation scenarios for specific mileage and updated capital cost assumptions.

- b. The description of the data functions and formulas to calculate the CBRs for each mitigation plan scenario on the circuit segment are included in attachment “*WMP-Discovery2026-2028_DR_SPD_007-Q007Atch01CONF.xlsb*”, which is the excel version of the WPC Feedback Loop tool.
- c. Attachment “*WMP-Discovery2026-2028_DR_SPD_007-Q007Atch01CONF.xlsb*” includes an example circuit segment, French Gulch 11022902, that runs through the WPC Feedback Loop. The “Main” worksheet shows the circuit segment being run through the Feedback Loop tool, and the “Administration” workbook provides the circuit segment data and risk parameters.

French Gulch 11022902 was first compared with a purely OH and a purely UG solution. The UG solution was not selected because despite having a CBR above 1 and within 50% of OH ($1.35 > 0.5 \times 2.25$) (see cells E137 and F137), its Net Benefit (\$28.48M) was lower than OH solution (\$43.96M) (See cells E135 and F135).

This result led to an analysis of the Hybrid alternative based on the criteria outlined in the System Hardening Project Scoping Decision Tree and Process (Figures 8.2.1-1-3), which was driven by tree fall-in risk, a small amount of ingress/egress risk from two highway crossings, and a shift from the OH alternative for the end-of-line customer where the UG option required significant relocation. When compared to the OH option, the Hybrid alternative had a greater CBR ($2.43 > 2.25$) (see cells G137 and F137) and Net Benefit (\$49.97M > \$43.96M) (see cells G135 and F135).

The existing WDRM v4 overhead mileage for FRENCH GULCH 11022902 is 7.02 miles (cell F50). The selected hybrid alternative includes 5.96 miles of overhead hardening and 1.40 miles of undergrounding installed to meet the CBR and Net Benefit calculations outlined above.

The inputs provided by the scoping team are in green font in attachment “*WMP-Discovery2026-2028_DR_SPD_007-Q007Atch01CONF.xlsb*” and also below for reference:

- Circuit Segment
- Mitigation Plan Scenario 1 (UG Primary)
 - Mileage Allocated – total existing overhead miles impacted by the selected mitigation
 - Initial Capital Spend (\$M) – installation costs of selected mitigation
- Mitigation Plan Scenario 2 (OH Primary + EPSS)
 - Mileage Allocated – total existing overhead miles impacted by the selected mitigation
 - Initial Capital Spend (\$M) – installation costs of selected mitigation
- Mitigation Plan Scenario 3 (Hybrid)
 - Mileage Allocated – total existing overhead miles impacted by the selected mitigation

- Initial Capital Spend (\$M) – installation costs of selected mitigation
- d. Reference “*WMP-Discovery2026-2028_DR_SPD_007-Q007Atch01CONF.xlsb*” for example documentation of the excel version of the WPC Feedback Loop tool.