

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

PG&E Data Request No.:	CalAdvocates_011-Q012		
PG&E File Name:	WMP-Discovery2023_DR_CalAdvocates_011-Q012		
Request Date:	April 5, 2023	Requester DR No.:	CalAdvocates-PGE-2023WMP-11
Date Sent:	April 10, 2023	Requesting Party:	Public Advocates Office
DRU Index #:		Requester:	Pui-Wa LI

The following questions relate to your 2023-2025 WMP submission and also the following documents:

- PG&E's 2022 WMP, Section 7.1.E, Attachment 1 (Attch_Q3.pdf),
- PG&E's presentation during the 2021 EPIC Symposium (Attch_Q6_EPIC_Presentation.pdf),
- PG&E's Electric Preliminary Statement Part FY (Tariff Sheet No. 52259-E), and
- PG&E's Test Year 2023 GRC, Application 21-06-021, Exhibit PG&E-04 and Exhibit PG&E-17.

TOPIC: RAPID EARTH FAULT CURRENT LIMITER (REFCL)

QUESTION 012

PG&E's 2023 WMP, at page 275, states that:

Instead of making costly changes to the grid, we are moving forward with more cost-effective solutions such as DCD [Downed Conductor Detection] and Partial Voltage Detection.

Regarding Downed Conductor Detection (DCD),

- a) What "changes to the grid" are required for PG&E to implement this technology?
- b) Is DCD viable on 3-wire systems, 4-wire systems, or both?
- c) Does PG&E have a cost estimate for the deployment of DCD?
- d) If the answer to part (c) is yes, please provide the cost estimate(s).

ANSWER 012

- a) Depending on the existing recloser controller, DCD may not require a physical "change to the grid" or it may require the retrofitting of an existing line recloser controller.

- b) DCD is most compatible with 3-wire systems. Implementation on 4-wire is possible but may not achieve the benefits desired due to the higher settings thresholds that would be required. As a result, we are not currently installing DCD on 4-wire systems.
- c) Yes, please see the response to subpart (d) below.
- d) The cost estimate is as follows: \$15.9 million in 2023; \$13.1 million in 2024; and \$8.4 million in 2025.