

PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigation Plans
Rulemaking 18-10-007
Data Response

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PG&E Witness:		Requester:	Tyler Holzschuh

The following questions relate to PG&E's 2021 wildfire mitigation plan (WMP).

QUESTION 06

- a) What is the latency of PG&E's SmartMeter Partial Voltage Detection (from p. 440 of PG&E's 2021 WMP) from the actual moment of partial voltage to a display in a control room?
- b) Does PG&E's downed conductor detection (from p. 357 of PG&E's 2021 WMP) detect faults upstream or downstream of the recloser it is installed on?
- c) What is the latency of PG&E's recloser alarms from the time of the actual condition causing an alarm to a display in a control room?

ANSWER 06

- a) Smart meters will generate a partial voltage alarm after 65 seconds for Single phase meters, and up to 140 seconds for 3 phase meters. Communications from the meter to DMS is 5 to 30 seconds. Processing to the DMS display is an additional 2-10 seconds. Total typical time from actual partial voltage condition detection at the meter to display on the DMS screen is 72 to 180 seconds (best case for single phase meters and worst case for three phase meters).

Note: Availability of communications from the SmartMeter is not guaranteed in all outage conditions.

- b) Downed Conductor Detection is protective element designed to detect faults downstream of the recloser.
- c) PG&E uses multiple communication mediums with variable latencies, but typical latency is around 3 seconds.