

**PACIFIC GAS AND ELECTRIC COMPANY**  
**Wildfire Mitigation Plans Discovery 2022**  
**Data Response**

PG&E Data Request No.:	OEIS_005-Q10		
PG&E File Name:	WMP-Discovery2022_DR_OEIS_005-Q10		
Request Date:	March 18, 2022	Requester DR No.:	OEIS-PG&E-22-005
Date Sent:	March 23, 2022	Requesting Party:	Office of Energy Infrastructure Safety
PG&E Witness:		Requester:	Kevin Miller

**SUBJECT: EPSS DATA**

**QUESTION 10**

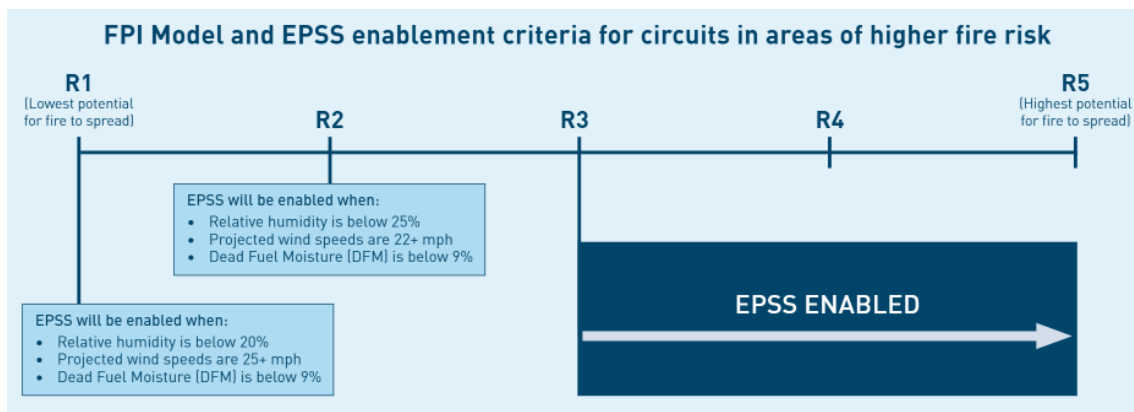
PG&E noted in its WMP that the deployment of EPSS throughout pilot areas in its service area led to a significant reduction in ignitions. After reviewing the ignition data submitted by PG&E, the basis of this claim is unclear (i.e., the total ignitions and annual ignitions normalized by environmental conditions were similar to 2020). Please provide the following:

- a) Geospatial data showing the locations of circuits/circuit segments which were protected by fast trip settings/EPSS in 2021, the date each was installed, and the number of de-energizations (and customer hours) resulting from each EPSS system
- b) Geospatial data showing the locations of circuits/circuit segments which are currently protected by fast trip settings/EPSS, the date each was installed, and the number of de-energizations (and customer hours) resulting from each EPSS system
- c) A summary for each automated de-energization, including whether it was a true hazard (i.e., resulting from object contact, equipment failure, etc.) or a false alarm/nuisance de-energization
- d) An explanation of the criteria used to determine when to enable fast trip settings/EPSS on these circuits (during extreme FPI, RFWs, fire season, etc.)
- e) Geospatial data showing the locations, cause codes, dates and times for ignitions, wires-down events, and outages that occurred along circuit segments with fast trip settings/EPSS enabled

**ANSWER 10**

- a) Please see attached WMP-Discovery2022\_DR\_OEIS\_005-Q10Atch01CONF.xlsx tab '1- 2021 EPSS 10.20.2021'. For Outage (de-energizations) data, see tab '3 - 2021-22 EPSS Outages'. Please note that this attachment has been designated confidential.
- b) Please see attached WMP-Discovery2022\_DR\_OEIS\_005-Q10Atch01CONF.xlsx tab '2- 2021 EPSS 03.10.2022'. For Outage (de-energizations) data, see tab '3 - 2021 -22 EPSS Outages'. Please note that this attachment has been designated confidential.

- c) Please see attached WMP-Discovery2022\_DR\_OEIS\_005-Q10Atch01CONF.xlsx tab '3- 2021-22 EPSS Outages'. Please note through the course of our outage response and / or review processes PG&E classifies each outage by its's initiating cause if reasonably identifiable. If a cause is unable to be determined, although the outage is logged as 'Unknown' this does not imply that a safety or wildfire hazard did not exist. Please note that this attachment has been designated confidential.
- d) PG&E currently uses an internal Fire Potential Index (FPI) - A detailed explanation of the Fire Potential Index (FPI) can be found in the 2022 WMP in section 4.5.1.(f) - to determine when to enable EPSS in addition to other localized weather and operational factors. In combination with the FPI at a location, we have developed criteria to enable EPSS when high winds, low humidity and low dead fuel moisture (DFM) indicate an increased risk of wildfire ignitions. Our current enablement criteria is shown below:



- e) Please see attached WMP-Discovery2022\_DR\_OEIS\_005-Q10Atch01CONF.xlsx tab '4- 2021 EPSS Ignitions'. Please note PG&E is including Ignition 1258 in this submission. At the time of ignition, PG&E determined this ignition did not to meet reporting criteria due to eyewitness accounts to the fire size being less than 1-linear meter in size. In late February, PG&E received a fire incident report from the responding fire-suppression agency noting that the fire size did meet CPUC reporting criteria, conflicting with the prior determination. This ignition had previously been excluded from analysis on the effectiveness of PG&E's 2021 EPSS program. Please note that this attachment has been designated confidential.