

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

PG&E Data Request No.:	SPD_001-Q008
PG&E File Name:	WMP-Discovery2026-2028_DR_SPD_001-Q008
Request Date:	April 15, 2025
Requester DR No.:	SPD-PGE-WMP2026-001
Requesting Party:	Safety Policy Division
Requester:	Edwin Schmitt
Date Sent:	April 30, 2025

SUBJECT: OUTAGES, PRIORITY A, MITIGATION EFFECTIVENESS AND WBCA (SPD-PGE-WMP2026-001)

QUESTION 008

Provide the outage data set used in WDRM v4. Include a unique outage ID that matches the data in the Spatial Quarterly Data Reports (QDR) data set in excel format. Each row should correspond to an outage, and each column should correspond to a feature related to the outage used in the model.

- a. Describe how the outage location was used in WDRM v4 to determine risk at an asset location.
 - i. If the GPS-based outage location was not used, explain why?
 - ii. Was the classification of HFTD/non-HFTD (or other similar HFRA/non-HFRA) used as a factor in the model? If so, explain how.

Answer 008

The modeling dataset used for the Distribution Event Probability Models in WDRM v4 with the primary key for the outage is included in Attachment “*WMP-Discovery2026-2028_DR_SPD_001-Q008Atch01.xlsx*”. Please note that not all failure events result in an outage so the outage id is blank for some events.

- a.
 - i. Assignment of outage/failure to assets or pixels varied by model type.
 - For asset models: For WDRM v4, outages/failure events were assigned using the unique equipment id. If a unique equipment ID for the asset or pole could not be extracted from historical records, then the latitude and longitude were used to identify the nearest asset if the values were GPS-based. If no equipment ID or GPS-based location data were identified, then the event was excluded from the model training dataset.

- For pixel models: Reliable locations for failure/outage data were prioritized first (such as GPS-based outage locations). Non-GPS locations were used as a last resort. Locations that were outside of a “grid” pixel (i.e. events more than ~100m from the distribution system) were excluded from the model training dataset.
- ii. HFTD classification was used as an input to some of the Distribution Event Probability Models (DEPM). The feature importance of model inputs is documented in the DEPM, version 4 model documentation. HFTD was not majorly influential in any of the DEPM models.