

PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigation Plans Discovery 2023-2025
Data Response

PG&E Data Request No.:	CalAdvocates_041-Q001		
PG&E File Name:	WMP-Discovery2023-2025_DR_CalAdvocates_041-Q001		
Request Date:	April 8, 2024	Requester DR No.:	CalAdvocates-PGE-2025WMP-05
Date Sent:	April 11, 2024	Requesting Party:	Public Advocates Office
PG&E Witness:		Requester:	Holly Wehrman

This data request relates to PG&E's Wildfire Distribution Risk Model version 4 (henceforth referred to as "WDRM v4").

QUESTION 001

- a) Please list all distinct risk scores generated by PG&E's WDRM v4. For example, WDRM v3 generated 17 different risk scores.¹
- b) For each risk score in part (a), please provide a category or brief description of the type of risk the score represents.
- c) For each risk score in part (a), please provide a brief explanation of how PG&E intends to use that risk score.
- d) For each risk score in part (a), please list all PG&E wildfire mitigation initiatives that are informed by that risk score (if PG&E expects to utilize a risk score to inform a mitigation initiative in the future, please so note).
- e) For each risk score in part (a), please state the most granular level available for that risk score. For example, in WDRM v3, the most granular level available would be the risk scores associated with individual 100m x 100m pixels.
- f) For each risk score in part (a), please state the granularity at which the risk score is used to inform wildfire mitigation initiatives (e.g. circuit segment, circuit, individual asset, individual miles, etc.).

¹ All references to WDRM v3 are related to PG&E's responses to data request CalAdvocates-PGE-2022WMP-31, September 8, 2022.

ANSWER 001

There are 23 event probability models from WDRM v4 that produce ignition risk values:

- Animal – Bird
- Animal – Squirrel
- Animal – Other
- Capacitor Bank
- DPD
- Fuse
- Primary Conductor – Line Slap
- Primary Conductor – Wire Down
- Primary Conductor – Other
- Secondary Conductor
- Support Structure - Leaking
- Support Structure – Equipment
- Switch
- Third Party – Balloon
- Third Party – Vehicle
- Third Party – Other
- Transformer – Equipment
- Transformer – Leaking
- Vegetation – Branch
- Vegetation – Trunk
- Vegetation – Other
- Voltage Regulator
- Other Equipment

Responses to subparts (b) through (f) of this request are described in the table below.

a) Event Probability Risk Score	b) Category / Description	c) Intended Use	d) Mitigation Initiatives	e) Granularity	f) Risk Granularity
Animal – Bird	Ignition risk caused by bird contact	Inform mitigation for bird related ignitions	TBD*	Pixel (100m ²)	Circuit Segment
Animal – Squirrel	Ignition risk caused by squirrel contact	Inform mitigation for squirrel related ignitions	TBD*	Pixel (100m ²)	Circuit Segment
Animal – Other	Ignition risk caused by contact other than bird and squirrel	Inform mitigation for other animal related ignitions	TBD*	Pixel (100m ²)	Circuit Segment
Capacitor Bank	Ignition risk caused by capacitor bank failures	Inform mitigation for capacitor bank related ignitions	TBD*	Asset	Asset
Dynamic Protective Device (DPD)	Ignition risk caused by DPD failures	Inform mitigation for DPD related ignitions	TBD*	Asset	Asset
Fuse	Ignition risk caused by fuse failures	Inform mitigation for fuse related ignitions	TBD*	Asset	Asset
Primary Conductor – Line Slap	Ignition risk caused by primary conductor failures due to line slap	Inform mitigation for primary conductor line slap related ignitions	TBD*	Asset	Asset
Primary Conductor – Wire Down	Ignition risk caused by primary conductor failures due to wire down	Inform mitigation for primary conductor wire down related ignitions	TBD*	Asset	Asset
Primary Conductor – Other	Ignition risk caused by primary conductor failures other than line slap and wire down	Inform mitigation for other primary conductor related ignitions	TBD*	Asset	Asset
Secondary Conductor	Ignition risk caused by secondary conductor failures	Inform mitigation for secondary conductor related ignitions	TBD*	Pixel	Circuit Segment
Support Structure – Electrical Failure	Ignition risk caused by support structure electrical failures	Inform mitigation for support structure electrical related ignitions	TBD*	Asset	Asset
Support Structure – Equipment Failure	Ignition risk caused by support structure equipment (pole and attachment) failures	Inform mitigation for support structure equipment related ignitions	TBD*	Asset	Asset
Switch	Ignition risk caused by switch failures	Inform mitigation for switch related ignitions	TBD*	Asset	Asset
Third Party – Balloon	Ignition risk caused by mylar balloon contact	Inform mitigations for balloon related ignitions	TBD*	Pixel (100m ²)	Circuit Segment
Third Party – Vehicle	Ignition risk caused by vehicle contact	Inform mitigations for vehicle related ignitions	TBD*	Pixel (100m ²)	Circuit Segment
Third Party – Other	Ignition risk caused by contact other than balloon and vehicle	Inform mitigations for other cause related ignitions	TBD*	Pixel (100m ²)	Circuit Segment
Transformer – Equipment	Ignition risk caused by pole mounted transformer equipment failures	Inform mitigations for transformer equipment related ignitions	TBD*	Asset	Asset
Transformer – Leaking	Ignition risk caused by leaking transformers	Inform mitigations for leaking transformer related ignitions	TBD*	Asset	Asset
Vegetation – Branch	Ignition risk caused by tree branch failure	Inform mitigations for tree branch failure related ignitions	TBD*	Pixel (100m ²)	Circuit Segment
Vegetation – Trunk	Ignition risk caused by tree trunk failure	Inform mitigations for tree trunk failure related ignitions	TBD*	Pixel (100m ²)	Circuit Segment
Vegetation – Other	Ignition risk caused by vegetation failures other than tree branch and trunk failures	Inform mitigations for vegetation related ignitions other than tree trunk and branch	TBD*	Pixel (100m ²)	Circuit Segment

Voltage Regulator	Ignition risk caused by voltage regulator and shunt capacitor failures	Inform mitigation for voltage regulator related ignitions	TBD*	Asset	Asset
Other Equipment	Ignition risk from causes not specified by the other 22 event probability models	Inform mitigation for other equipment related ignitions not covered by a specific equipment model	TBD*	Pixel (100m ²)	Circuit Segment

*To be determined in 2026-2028 Base WMP.