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

PG&E Data Request No.:	CalAdvocates_016-Q006		
PG&E File Name:	WMP-Discovery2023_DR_CalAdvocates_016-Q006Rev01		
Request Date:	April 18, 2023	Requester DR No.:	CalAdvocates-PGE-2023WMP-16
Date Sent:	April 21, 2023 Rev01: May 1, 2023	Requesting Party:	Public Advocates Office
DRU Index #:		Requester:	Holly Wehrman

The following questions relate to your 2023-2025 WMP submission.

QUESTION 006

For each of the undergrounding projects that PG&E has planned for 2023, please answer the following questions on each project:

a) How many SCADA underground switches will be installed?

b) How many overhead switches will be removed?

c) How many tie switches to adjacent circuits currently exist?

d) How many OH tie switches to adjacent circuits will be removed?

e) How many tie switches (OH or UG) will exist when the project is complete?

f) How many SCADA overhead switches will be removed?

g) How many SCADA underground switches will be installed as tie points to adjacent circuits?

h) How many SCADA underground switches will be installed for sectionalizing?

i) How many subsurface transformers will be installed?

j) How many pad-mounted transformers will be installed?

k) How many vaults will be installed?

l) How many junction boxes will be installed?

m) How many junction boxes will be installed for sectionalizing?

n) How many junction boxes will be installed as tie points to adjacent circuits?

o) How many load break elbows will be installed?

p) How many load break elbows will be installed for sectionalizing?

q) How many load break elbows will be installed as tie points to adjacent circuits?

r) How many handholes will be installed?

s) How many risers will be installed?

ANSWER 006 REVISED 01

PG&E objects to this request as overbroad and unduly burdensome. We do not maintain the requested information in a manner that allows it to be aggregated without a manual review of each project's engineering and construction documentation. Manually collecting the data across hundreds of projects would require significant time and resources and the development of multiple processes to ensure data accuracy. If you would like to discuss this request further, please feel free to reach out to us.

Revision:

In response to a request to provide the results of a manual review of a few projects, PG&E completed this review on a series of four projects at Clark Road 1102 LR81296 Phase 1.1-1.4. PG&E is providing the total quantities for the four projects that are constructed on the same circuit. The following orders are the associated projects that can be found on our Undergrounding Workplan: 35299631, 35329009, 35329010, 35329011. Below we also provide the assumptions used to collect this information.

a) PG&E assumes "SCADA underground switches installed" includes both pad-mounted and sub-surface SCADA devices. Because these devices often have multiple positions enabled (e.g. three-way switch), PG&E also collected the number of those with SCADA enabled as these are not always 1:1.
    - SCADA underground devices – 1
    - SCADA positions enabled – 1

b) PG&E assumes "Overhead switches removed" to include both mainline and tap-line switches, protection devices that can be operated as switches, bypass switches and in-line disconnects as installed as part of recloser packages.
    - Overhead Switches Removed – 14

c) PG&E assumes "tie switches to adjacent circuits" are only included if part of the project reviewed and excludes ties to itself.
    - Tie Switches to Adjacent Circuits – 0

d) PG&E assumes "tie switches to adjacent circuits removed" are only included if part of the project reviewed and excludes ties to itself.
    - Tie Switches to Adjacent Circuits Removed – 0

e) PG&E assumes "tie switches (OH and UG) to adjacent circuits installed" are only included if part of the project reviewed and excludes ties to itself.
    - Tie Switches (OH and UG) to Adjacent Circuits installed – 0

f) PG&E assumes "SCADA OH switches removed" to include both mainline, tap-line switches, and protection devices with SCADA that can be operated as switches.
    - SCADA Overhead Switches Removed – 3

g) PG&E assumes "SCADA underground tie switches to adjacent circuits are only included if part of the project reviewed and excludes ties to itself.
    - Tie Switches to Adjacent Circuits – 0

h) PG&E assumes “SCADA underground switches installed for sectionalizing” to include both pad-mounted and sub-surface SCADA devices as part of this project. Because these devices often have multiple positions enabled, PG&E also collected the number of those with SCADA enabled as these are not always 1:1. Note that due to the relocation and re-design of the circuit, it is likely that SCADA removed from the overhead on one project may be installed underground as part of a neighboring project. This below count excludes 2 new SCADA devices installed on a neighboring project with four total SCADA operable switches.

- SCADA Underground Devices – 1
- SCADA Positions enabled – 1

i) Sub-surface Transformers Installed – 0

j) Pad-mounted Transformers Installed – 31

k) PG&E assumes “vaults will be installed” to be referencing surface operable enclosures, as PG&E typically uses this term and would include both primary and secondary enclosures.

- Vaults installed – 59

l) PG&E assumes “Junction boxes installed” to include both subsurface and pad-mounted junctions as well as both load-break and dead-break configurations.

- Junction Boxes Installed – 18

m) PG&E assumes “Junction boxes installed for sectionalizing” to include both subsurface and pad-mounted junctions as well as both load-break and dead-break configurations. Note that all junctions can be used for sectionalizing a circuit, but the dead-break junctions require a clearance utilizing adjacent switches to facilitate de-energization before the sectionalization.

- Junction Boxes Installed for Sectionalization – 18

n) PG&E does not install junctions as normally open ties to other circuits, though they are capable of being separated and placed on isolated stand-off to facilitate a temporary tie location.

- Junction Boxes Installed as Tie Points – 0

o) PG&E assumes “Load-Break elbows installed” to include only those installed on load break junctions and include each phase.

- Load-Break Elbows Installed – 145

p) Since all Load-break elbows installed on junctions can be used for sectionalization, the response would be no different than part o) in this response.

- Load-break Elbows installed for Sectionalization – 145

q) PG&E does not install Load-break Elbows as normally open ties to other circuits, though they are capable of being separated and placed on isolated stand-off to facilitate a temporary tie location.

- Load-break Elbows Installed as Tie Points – 0

r) PG&E included any handhole locations as part of the total vault (enclosure) count in part k) above as PG&E does not distinguish “handholes” from enclosures.

s) PG&E assumes “Risers to be installed” to include primary, secondary and service risers.
    - Risers to be Installed - 27