

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

<b>PG&amp;E Data Request No.:</b>	SPD_003-Q010
<b>PG&amp;E File Name:</b>	WMP-Discovery2026-2028_DR_SPD_003-Q010
<b>Request Date:</b>	April 24, 2025
<b>Requester DR No.:</b>	SPD-PGE-WMP2026- 003
<b>Requesting Party:</b>	Safety Policy Division
<b>Requester:</b>	Henry Sweat
<b>Date Sent:</b>	April 29, 2025

**SUBJECT: DATA REQUESTS RELATED TO THE 2026-2028 WMP (SPD-PGE-WMP2026-003)**

**QUESTION 010**

In the 2024 QDR spatial data set, the polylines GH-01 and GH-04 are frequently overlaid on each other. Explain how to identify how many miles were undergrounded, covered conductored or removed, as well as how to understand the as-built configuration of the system. Additionally, answer the following:

- a. SPD assumed the feature in the data set which states “ugfeet” and “ccfeet” would distinguish between undergrounding and covered conductor, but is finding that these numbers do not add up to the reported completed miles in a given WMP year. What is “ugfeet” and “ccfeet” and why do they not add up to the completed miles?
- b. SPD found the length of the polylines added up to 291 miles for GH-01 (Status=Complete, Completion Date = All), but the reported actual number of miles completed in the tabular QDR is 348. Explain why the length of the polylines is not equal to the 348 miles.
- c. Some GH-01 data is in points instead of polylines – explain why polylines are not used since there is either a portion of a line being removed, cover conductored or undergrounded.

**ANSWER 010**

The DescriptionOfWork data field can be used to see the current planned removal feet, underground feet, and covered feet, which can then be converted into miles for each project. Please note, this is not a required field by Energy Safety, but rather an additional detail PG&E provides to help the user get additional information related to the work performed. PG&E started providing the feet and activity type to the DescriptionOfWork field since the Q2 2024 submission. As PG&E indicates in our metadata, as well as in previous data request responses to the CPUC and Energy Safety, data in the Spatial QDR represents a snapshot in time only. The data evolves as more work is performed against the projects. The quarterly reports are interim draft work products used to provide visibility to work performed. They are not final versions for initiative and should not be used for verification. Project work expands beyond a single

quarter so the data about each project evolves. For complete details of work performed including schematics, job packages should be used and reviewed.

### **As-built configuration of the system**

PG&E's Geographic Information System (GIS), Electric Transmission GIS, and Electric Distribution GIS mapping systems represent assets associated with construction work when that work has been received and mapped by electric GIS mapping technicians. Construction jobs that are partially complete or fully complete may be mapped in the GIS systems once construction "as-built" information has been submitted and accepted by the GIS Mapping Department. Prior to being received by the GIS Mapping Department, completed job packages must undergo several processing steps including clerical review, processing, and paperwork scanning. Sometimes, completed job packages require additional information from the field or post-estimating work. The processing steps take time to complete. Until a project is completed and mapped, detailed information remains in the design systems and paper job packages.

When spatial quarterly reports are created, there will be varying levels of mapping available for each project. PG&E provides spatial data to the extent each job has been mapped. Please note, when a job status changes to "complete" in the GIS Data Standard submissions the GIS Mapping Department may still be undergoing processing steps to reflect the completed job package in GIS mapping systems. As such, construction field complete, does not mean mapping complete.

- a. As stated above, the DescriptionOfWork data field can be used to see the current planned removal feet, underground feet, and covered feet. This is an optional field and PG&E started providing activity feet since our Q2 2404 submission as an additional way to support understanding of each system hardening project. Given the schema character limit assigned to the DescriptionOfWork field, "ugfeet" and "ohfeet" are short for undergrounding of electric lines and/or equipment feet, covered conductor installation feet. There is also "removal" which is removal and retirement of overhead conductor to reduce risk of ignition in HFTDs. Covered conductor installation, undergrounding of electric lines and/or equipment, and removal and retirement of overhead conductor to reduce risk of ignition in HFTDs are the three primary activities that collectively represent system hardening work captured in our WMP GH-01 commitment.

Should the undergrounding, covered conductor, and removal feet be added up and converted to miles across both the Grid Hardening Line and Grid Hardening Point feature classes, they do total up to 348 miles. Please see below for a breakdown of the values.

**Grid Hardening Line - Feature Class**

UtilityInitiativeTrackingID	Quarter	oh_feet	oh_miles	ug_feet	ug_miles	removal_feet	removal_miles	calculated_feet	calculated_miles
GH-01	Q4	148685	28.16004	485805	92.00852	0	0	634490	120.1685606
GH-01	Q3	174792	33.10455	252447	47.81193	1032	0.195454545	428271	81.11193182
GH-01	Q2	113787	21.55057	186684	35.35682	121	0.022916667	300592	56.93030303
GH-01	Q1	27853	5.275189	174294	33.01023	21970	4.160984848	224117	42.44640152
									<b>300.657197</b>

**Grid Hardening Point - Feature Class**

UtilityInitiativeTrackingID	Quarter	oh_feet	oh_miles	ug_feet	ug_miles	removal_feet	removal_miles	calculated_feet	calculated_miles
GH-01	Q4	1047	0.198295			28259	5.352083333	29306	5.550378788
GH-01	Q3	126123	23.88693			42685	8.084280303	168808	31.97121212
GH-01	Q2					53059	10.04905303	53059	10.04905303
GH-01	Q1					2996	0.567424242	2996	0.567424242
									<b>48.13806818</b>

Grid Hardening Line - Feature Class 300.6572

Grid Hardening Point - Feature Class 48.138068

**Total Miles 348.7953**

- b. As indicated above, the Spatial Quarterly Reports generate mappings to the extent mappings exist in our GIS source system at the time the reporting is generated. Until a project has been completely mapped, the line geometry may not measure to show the actual mileage of the projects. Construction complete in the field, does not mean mapping is complete in our source systems. Furthermore, as PG&E also states in our metadata, the spatial submission will not align to the official projection numbers in the WMP tabular filing. The official projection used to calculate line mines uses UTM Zone 10 NAD 83. However, the OEIS GDB is in WGS\_1984\_California\_Teale\_Albers\_FtUS, so when re-projected the translation will result in different line lengths.
- c. PG&E first attempts to put project data in the Grid Hardening Line feature class if there is line geometry available in our source system for that project. If no line geometry is available, projects are placed in the Grid Hardening Point feature class to show them as a latitude and longitude in the Spatial Quarterly Data Report. This ensures all projects are counted to avoid omitting any from the quarterly reports.