

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

PG&E Data Request No.:	OEIS_012-Q003		
PG&E File Name:	WMP-Discovery2023_DR_OEIS_012-Q003		
Request Date:	August 30, 2023	Requester DR No.:	P-WMP_2023-PG&E-012
Date Sent:	September 27, 2023	Requesting Party:	Office of Energy Infrastructure Safety
DRU Index #:		Requester:	Dakota Smith

SUBJECT: REGARDING PG&E’S RESPONSE TO RN-PG&E-23-04

QUESTION 003

- a. Table RN-PG&E-23-04-1 uses “Aged Backlog Units Executed” and “Aged Backlog Units Remaining”. Provide these same numbers for each year, broken down by non-pole ignition risk, ignition risk, and non-ignition risk respectively.
- b. Since PG&E’s initiation of FSRs, provide the following data broken down annually:
 - i. The number of instances in which PG&E cancelled a work order in response to an FSR.
 - ii. The number of instances in which PG&E created a new work order in place of an existing work order in response to an FSR.
 - iii. The number of instances in which PG&E combined work orders in response to an FSR.
 - iv. Details on how PG&E tracks the above (i) through (iii) within its databases. If PG&E does not currently track such instances, explain why.
- c. Will PGE continue to conduct annual FSRs on all Priority E tags?
- d. Provide all of PG&E’s workplans for workforce and resources relating to handling its backlog. This should include, but not be limited to:
 - i. Balancing, retaining, and obtaining workforce and personnel.
 - ii. Resource limitations, such as obtaining needed equipment and supply chain issues, and how PG&E intends on handling them.
 - iii. Training for personnel working on backlog, including details on how to identify, prioritize, and respond to repairs.
- e. How is PG&E tracking and prioritizing ignition risk tags that are Priority E or F?

ANSWER 003

- a. The table below reflects the current work plan as of September 8, 2023.

Plan Year	Ignition & Non-Ignition	*Non-Pole Capital - Open Aged Backlog Tags	*Non-Pole Expense - Open Aged Backlog Tags	*Pole - Open Aged Backlog Tags	Total Open Aged Backlog Tags by Ignition/Non-Ignition Risk	Total Aged Backlog Units Remaining Open	
2023	HFTD/HFRA Ignition Risk	10,500	81,000	91,900	183,400	230,000	
	HFTD/HFRA Non-Ignition Risk	1,500	45,000	100	46,600		
Plan Year	Ignition & Non-Ignition	*Non-Pole Capital - Aged Backlog Tags Executed	*Non-Pole Expense - Aged Backlog Tags Executed	*Pole - Aged Backlog Tags Executed	Total Aged Backlog Tags Executed by Ignition/Non-Ignition Risk	Total Aged Backlog Units Remaining Open by Ignition/Non-Ignition Risk	Total Aged Backlog Units Remaining Open
2024	HFTD/HFRA Ignition Risk	3,400	28,900	29,900	62,200	121,200	152,300
	HFTD/HFRA Non-Ignition Risk	700	14,800	-	15,500	31,100	
2025	HFTD/HFRA Ignition Risk	2,900	21,100	18,700	42,700	78,500	99,600
	HFTD/HFRA Non-Ignition Risk	300	9,700	-	10,000	21,100	
2026	HFTD/HFRA Ignition Risk	1,700	14,000	15,100	30,800	47,700	61,900
	HFTD/HFRA Non-Ignition Risk	300	6,600	-	6,900	14,200	
2027	HFTD/HFRA Ignition Risk	2,500	17,000	27,900	47,400	300	-
	HFTD/HFRA Non-Ignition Risk	500	14,000	-	14,500	(300)	

*Rounding to the nearest hundred for Non-Pole Capital, Non-Pole Expense, and Pole Tags Executed.

- b. For all of the questions below, the answers provided are based on the best data available. Since there is no specific database for FSRs, certain assumptions and data mining were employed to achieve the best possible results (see part iv.)
- i. The table below provides the best available data for the number of instances in which PG&E cancelled a work order in response to an FSR.

FSR Year	Notification #
2020	10,458
2021	4,794
2022	2,406

- ii. PG&E typically updates existing notifications and does not create new notifications as part of its FSR process. The exception to this is when the FSR escalates the lower priority tag to an emergency tag. When this occurs, a new Priority A notification is created and the older notification is closed. The table below provides the best available data for the number of instances in which PG&E created a new work order in response to an FSR.

FSR Year	Notification #
2020	57
2021	43
2022	66

- iii. PG&E typically only combines notifications as part of an FSR process when the inspector encounters duplicate notifications. The table below provides the best available data for the number of instances where an inspector recommended a cancellation for a duplicate.

FSR Year	Notification #
2020	1,087
2021	162
2022	99

- iv. All EC notifications are entered in SAP for tracking, work planning, and execution. There is no distinct report or data base dedicated to notifications that are subject to FSR, but PG&E can use a user status to identify which notifications require an FSR and use a task to see which notifications have an FSR completed. However, there is no report to directly see notifications that are cancelled or combined as a result of an FSR. The recommendations made by an inspector from 2020 to 2022 on Inspect or Construct App (2020) show up on the notification as comments in SAP longtext; we have used these comments to approximate the numbers in parts 1 to 3 above. For example, for cancellations, out of all cancelled EC tags, we searched for notifications that had a FSR completed as well as “005-”, “005.”, (the code that inspectors selected for cancellations from 2020 to 2022), or “FG08”, a task code that was added in 2022 to indicate cancellations.
- c. Yes, PG&E will continue to monitor time-dependent open Priority E notifications that have passed their due dates to validate the condition on these notifications has not degraded to a point where the notification priority should be escalated. This monitoring may take place through multiple channels, including stand-alone reassessments like the FSR, the open tag validation process that is part of a ground or aerial inspection, or another inspection or patrol designed to identify tag escalations.
- d.
 - i. Annual and multi-year work plans are resourced during the annual planning cycle to set the number of construction personnel required to complete the work plan. There are mobile resources that can move to areas where work volumes exceed local capacity. Contract resources are utilized when internal resources are at or above capacity. The expanding of the planning horizon to multiple years allows for increased stability in work assignments.

PG&E has partnered with our unions to unlock opportunities for employee retention. PG&E also runs multiple hiring events to bring in new journeyman level linemen in addition to hiring and training apprentice linemen.
 - ii. We do not currently anticipate any equipment or supply chain issues impacting our completions.
 - iii. Most hands-on training for Electric Operations takes place at the Livermore Electric Safety Academy, a 43-acre campus in Livermore, CA. Multiple state-certified apprenticeships, including the 4-year Apprentice Line Worker Apprenticeship, are delivered at this facility. Additional apprenticeships include

Cable Splicer, Electrician, Electrician Technician, Distribution System Operator, Meter Service Technician, and Electric Equipment Repair. The facility also includes a substation training facility that allows PG&E to provide specific, hands-on training and assessments for substation personnel in a safe and de-energized environment. In addition to apprenticeship training, hands-on refresher training, such Rubber Glove and Grounding, for journey-level coworkers is also provided to Electric Operations. By the end of 2023, over 2,000 Electric Operations coworkers will have completed Rubber Glove and Grounding Refresher training. Another 1,300 coworkers will receive Grounding Refresher training in 2024. Over 30,000 student days of training are planned to be delivered in 2023 to Electric Operations employees.

There is also a variety of training provided to Electric Operations functional areas that is not delivered at LESA but is designed and developed by Academy, including courses and programs for Aviation, Vegetation Management, Service Planning and Design, and Engineering, and NERC.

The Apprentice Lineworker program is a 4-year apprenticeship consisting of instructor-led training, on-the-job training, and web-based training to prepare apprentices for the journeyman lineman classification so that they can build, maintain electric power systems and restore electric service to commercial, industrial, agricultural and residential customers.

- e. PG&E tracks all open notifications in SAP and utilizes other tools to visually present the system of record data from SAP in an easier to absorb fashion, like a Tableau report. The prioritization of ignition risk tags in HFTD/HFRA within the current backlog, as well as tags generated in the future, is based on their wildfire risk score. The order in which they will be selected for execution will be based on a risk spend efficiency approach.