

**PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigation Plans Discovery 2022
Data Response**

PG&E Data Request No.:	OEIS_007-Q06		
PG&E File Name:	WMP-Discovery2022_DR_OEIS_007-Q06		
Request Date:	March 28, 2022	Requester DR No.:	Data Request OEIS-PG&E-22-007
Date Sent:	March 30, 2022	Requesting Party:	Office of Energy Infrastructure Safety
PG&E Witness:		Requester:	Kevin Miller

SUBJECT: TRANSMISSION DETAILED GROUND INSPECTIONS

QUESTION 06

Regarding WMP-Discovery2022_DR_CalAdvocates_12-Q08 and WMP
Discovery2022_DR_CalAdvocates_012-Q02Atch01:

- a. Define the population of transmission detailed ground inspections reviewed through Desktop Reviews, including but not limited to the number of inspections checked, and the date range that those inspections occurred within.
- b. Define the population of transmission detailed ground inspections reviewed through Field Reviews, including but not limited to the number of inspections checked, and the date range that those inspections occurred within.
- c. Explain the QA/QC processes for Transmission, climbing inspections and Transmission, drone inspections. Information should include the following stats for every year applicable (i.e., 2019, 2020, 2021):
 - i. Population of inspections eligible for QA/QC process;
 - ii. Number of inspections undergoing QA/QC process; and
 - iii. Number of inspections with failed review or infractions.

ANSWER 06

- a. The Desktop QC process reviews a sample from the overall completed inspection population. The QC sampling for Desktop Review in 2021 did not sample from all completed transmission detailed ground inspections.

The process begins with obtaining a list of all completed detailed ground inspections (MAT code BFZ) for the review period. The population was filtered, and the sample was focused on contractors and inspections that did not generate notifications. The sample size is determined using the standard 95% confidence level and 10% margin of error, also known as a 95/10. Once the total sample size is generated by Division/MWC, we calculate the number of records for each inspector proportionate to the total volume of inspections conducted by the inspector in that Division/MWC. Once the counts are generated for each inspector, records will be randomly picked. For example, if an inspector performed 100/1000 (10%) inspections in that Division for the two-week period, and the sample size for

the Division was 100, then QC will look at 10 randomly assigned records for that inspector. The goal is to assess every inspector that was actively performing inspections for the work period being QC assessed. 7,748 inspections were checked. Those inspections occurred from March 16, 2021, to December 20, 2021.

- b. The Field QC process only reviews a sample from the overall completed inspection population. The QC sampling for Field Review in 2021 did not sample from all completed transmission detailed ground inspections. The sampling method did apply some filters. The process begins with obtaining a list of all completed detailed ground inspections (MAT code BFZ) for the review period. Then the Wildfire Consequence Scores are applied to the population of data (by asset location), and the entire population is prioritized by Wildfire Consequence Score, from highest to lowest. The population is then separated into equal deciles, decile 10 being the highest scores and decile one being the lowest scores. The sample is then randomly pulled from the population deciles using the following weighting: 18 percent from decile 10, 16 percent from decile 9, 14 percent from decile 8, 12 percent from decile 7, 10 percent from decile 6, 10 percent from decile 5, 8 percent from decile 4, 6 percent from decile 3, 4 percent from decile 2, and 2 percent from decile 1. The sample size is determined using the standard 95% confidence level and 10% margin of error, also known as a 95/10. Once the sample size is generated, records will be randomly picked. 1,512 inspections were checked. Those inspections occurred from August 29, 2021, to March 23, 2021.
- c. With regards to Transmission Climbing Inspections, Quality Management (QV Transmission) has not performed any Climbing Inspection audits for the period 2019 to 2021.

Specific to Aerial Inspections, we do not currently have an official QA/QC process in place, outside of the Aerial Inspections internal processes. We are, however, actively working to stand up a formal QA/QC program through the System Inspections QC team; one with a sustainable, statistically significant, framework that does not require a one-to-one review of every inspection record. In the interim, we have implemented the following ad hoc processes until a formal, repeatable, process is finalized.

In 2022, the process is as follows:

- The Inspector completes the inspection;
- Recommended notifications are then sent to an Inspection Review Specialist for review. The Inspection Review Specialist can then either support, downgrade, upgrade, or cancel the recommended notification;
- Any supported notifications are sent to the Centralized Inspection Review Team for final gatekeeping. The Centralized Inspection Review team then either support, downgrade, upgrade, or cancel the inspection on their end;
- Inspections without notifications also are sent to the Inspection Review Specialists to check for potential notifications.

In 2021, the process was as follows:

- Inspections are conducted;
- Inspections results are then reviewed by the Aerial Inspection Review Specialists;
 - The total number reviewed in 2021 was 67,783;
 - The number inspections with additional findings was not recorded as this was part of our normal inspection process and not a stand-alone QC process.
- Inspection results are also subject to an ad hoc review by Exponent;
 - The total number reviewed by Exponent was 651;
 - The number inspections with additional findings has not been finalized and is still in process;
- Additionally, an ad hoc review by the Quality Verification team (2021 Quality Verification Transmission Audit #503 System Inspections GO 165) is performed;
 - The total number reviewed by the Quality Verification team was 47 (1,521 opportunities);
 - Number inspections with findings 7 (15 total findings);
 - There was a 99% compliance rate.

In 2020, the process was as follows:

- Aerial Inspection internal No-Notification Reviews were performed;
 - The total number reviewed was 9,605;
 - The total number of inspections with additional findings was 848.

In 2019, the process was as follows:

- Aerial Inspections internal No-Notification Review were performed;
 - The total number reviewed was 21,255;
 - The total number inspections with additional findings was 3,412.