

PACIFIC GAS AND ELECTRIC COMPANY
Wildfire Mitigation Plans
Rulemaking 18-10-007
Data Response

PG&E Data Request No.:	CalAdvocates_057-Q12		
PG&E File Name:	WildfireMitigationPlans_DR_CalAdvocates_057-Q12		
Request Date:	June 10, 2021	Requester DR No.:	CalAdvocates-PGE-2021WMP-23
Date Sent:	June 15, 2021	Requesting Party:	Public Advocates Office
PG&E Witness:		Requester:	Alan Wehrman

The following questions relate to PG&E's 2021 Wildfire Mitigation Plan – Revised, submitted June 3, 2021.

QUESTION 12

In response to Remedy 3h of Critical Issue PGE-06, PG&E states,

QV reviews a sample of inspections and recently completed tree work to validate that all work was performed in accordance with PG&E standards. This process provides confirmation that requirements have or have not been met. QA uses a random sample of PG&E systems to estimate the work quality rate for the VM process from PI to completion of tree work.¹

- a) What is the size of the sample of inspections and recently completed tree work that QV reviews?
- b) Please describe how PG&E determined the sample size in part (a) and explain why it is a reasonable sample size.
- c) What is the size of the random sample of PG&E systems that QA uses to estimate the work quality rate for the VM process?
- d) Please describe how PG&E determined the random sample size in part (c) and explain why it is a reasonable sample size.

ANSWER 12

- a) Quality Verification (QV) sampled 11,690 locations for Routine VM completed work and 1,414 locations for CEMA completed work in 2019. In 2020, QV sampled 15,953 locations for Routine VM completed work, 1,449 locations for CEMA completed work, and 891 line segments for Enhanced Vegetation Management Work Verification completed work.
- b) QV Vegetation Management (VM) samples are designed to provide a statistically valid result. The population of the samples and area-based locations can vary, but all samples are drawn to provide, at a minimum, a rate of 95% confidence with a

¹ PG&E's 2021 Wildfire Mitigation Plan – Revised, p. 731.

maximum acceptable error of 3% for each individual review utilizing a sample calculator methodology. The equation used to determine the sample can be found in the book Sampling Techniques (3rd Edition) by William G. Cochran. It has been used for audits by Quality Assurance (QA) VM for the last 20 years. PG&E's methodology for deriving an accurate regulatory compliance score for our VM program has been confirmed as effective by independent 3rd party statisticians as recently as 2019.

- c) QA sampled 96,063 trees in 2019 and 79,256 trees in 2020 following completed VM work.
- d) QA VM samples are designed to provide a statistically valid result. The parameters of the sample and resulting mileage can vary, but all samples are drawn to provide at least 90% confidence with a maximum acceptable error of 3.25% for each individual audit utilizing a sample calculator methodology. The equation used to determine the sample can be found in the book Sampling Techniques (3rd Edition) by William G. Cochran. It has been used for audits by QA VM for the last 20 years. PG&E's methodology for deriving an accurate regulatory compliance score for our VM program has been confirmed as effective by independent 3rd party statisticians as recently as 2019.