

Southern California Edison

WSD-011 – Resolution implementing the requirements of Public Utilities Code Sections 8389(d)(1), (2) and (4) related to catastrophic wildfire caused by electrical corporations subject to the Commission’s regulatory authority

DATA REQUEST SET CalAdvocates - SCE - 2021 WMP - 02

To: Cal Advocates

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Job Title: Principal Manager, Aerial Inspections

Received Date: 1/22/2021

Response Date: 2/15/2021

Question 005:

Please provide the following:

- a) The average amount of person-hours to perform a single drone inspection of a transmission tower in 2020.
- b) The minimum amount of person-hours spent on a single drone inspection of a transmission tower in 2020.
- c) The total amount of person-hours spent on drone inspections of transmission towers in 2020.
- d) The total number of transmission towers that SCE performed drone inspections on in 2020.
- e) The total number of drone inspections of transmission towers performed in 2020.
- f) Please respond to questions 5(a) through 5(e) for:
 - i. 2018.
 - ii. 2019.

Response to Question 005:

Data collection from drone flights are separate from inspections of that data. The aerial inspection program does not utilize SCE employees to perform drone flights. The aerial inspection program uses external drone vendors to capture transmission tower photos using drones. Once the imagery is captured, the images are delivered to SCE and inspected by a team of Qualified Electrical Workers (QEWs) and Engineers.

- a) On an average, it takes 45 minutes to complete a single inspection of a transmission tower. This process is separate from flying the drone and capturing the images. The average amount of person-hours to capture transmission tower images in 2020 was ~45 minutes.
- b) The minimum number of person-hours spent on a single inspection of a transmission tower in 2020 is ~ 30 minutes. This process is separate from flying the drone and capturing the images. The minimum number of person-hours spent to capture transmission tower images in 2020 was ~15 minutes.
- c) The total number of person-hours spent on inspections of a transmission towers in 2020 is ~ 8,477. The total amount of person-hours spent by drone vendors to capture transmission towers in 2020 was ~7,500 hours.
- d) The total number of transmission assets on which SCE performed inspections in 2020 was 31,667 structures, out of which ~9,241 were towers. The inspection process is separate from flying

drones and capturing images.

e) The total number of transmission structures one which SCE performed inspections in 2020 was 31,667, out of which ~9,241 were towers. The inspection process is separate from flying drones and capturing images.

f)

i. 2018: The Aerial Inspection Program was not established.

ii. 2019: 5(a)~1 hour for both data capture and inspection; 5(b) ~15 min for data capture and ~30 minutes for inspection; 5(c) ~3,713 hours for inspections; 5(d) ~3,713 inspections; 5(e) ~3,713 inspections