

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 W S D - S C E - 0 0 4

To: WSD

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Response Date: 3/16/2021

Question 017:

What percentage of hazards identified by machine learning were not captured by inspectors previously?

Response to Question 017:

In 2020, SCE’s aerial inspection program piloted a machine learning model to detect deteriorated cross arms. The machine learning model was trained on defects identified by human inspectors. The machine learning model was validated by the aerial inspection program inspectors. The model correctly identified an additional 1.72% of the hazards beyond what the inspectors identified. Because the model also incorrectly identified potential hazards, the model is currently used in an advisory mode meaning when the model detects a defect, the structure is prioritized for a human inspector to review.