

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 Cal Advocates - SCE - 2021 WMP - 06

To: Cal Advocates

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Received Date: 2/22/2021

Response Date: 2/25/2021

Question 003:

Regarding the Weather Station to Circuit Mapping Project, in which SCE ranked weather stations according to statistical analysis results, provide a narrative description of each kind of statistical analysis result identified (in the response to Question 2(c) above).

Response to Question 003:

1. Column D and E: station_circuit_wind_corr and station_circuit_gust_corr:

- Description: Wind speed and gust correlation between the station’s closest WRF grid cell and circuit level WRF data
 - Answers the question, from a modeling perspective, can this grid cell approximate circuit level winds?

2. Column F and G: wrf_obs_wind_corr and wrf_obs_gust_corr:

- Description: Wind speed and gust correlation between the station’s closest WRF grid cell and observations.
 - Answers the questions, does WRF validate well at the station? Is there a station siting issue?

3. Column H and I: wind_MAE and gust_MAE:

- Description: The Mean Absolute Error.
 - Model evaluation metric

4. Column J and K: wind_RMSE and gust_RMSE:

- Description: The Root Mean Square Error.
 - Model evaluation metric

5. Column L and M: mean_corr and min_corr:

- Description: mean and min value from the correlations listed above in columns D through G