

Southern California Edison
Risk-Model-Group

DATA REQUEST SET O E I S - R M W G _ 2 0 2 4 - 0 0 1

To: Energy Safety
Prepared by: Jonathan Wuo
Job Title: Sr. Manager, Data Science
Received Date: 5/16/2024

Response Date: 6/11/2024

Question 02:

Regarding: data usage by model

Please provide data usage broken down by model (e.g., vegetation model, conductor model, transformer model, etc.) using the example table provided below. Include the following data usages:

- i. Scale and geographical context.
- ii. Topography.
- iii. Quality of historical outage, fault, and ignition data.
- iv. Usage of outage and fault events to augment ignition data.
- v. Integration of potential ignitions avoided due to PSPS events.
- vi. Asset data (including asset age, health, inspection results, type, etc.).
- vii. Impacts of system hardening and other initiative efforts.
- viii. Climate conditions (include historical wind conditions, relative humidity, temperature, etc.).
- ix. Vegetation (include type, density, height, etc.).
- x. Fuel characteristics (include load, size, continuity, vertical arrangement, moisture, etc.).
- xi. Impacts of routine and enhanced vegetation management activities (including tree trimming, tree removal, inspections, etc.).
- xii. Frequency of updates to datasets and inputs, including any associated triggers to determine the need for updates.
- xiii. Accuracy and quality checks for data and inputs.

Example of Table Illustrating Data Usage by Model

Data Usage	Model 1	Model 2	Model 3	Model 4
Scale and geographical context	EXAMPLE: 100m x 100m pixels across the HFTD Tier 2&3.			
Topography	EXMAPLE: USGS Topographic Position Index			
...				

Response to Question 02:

SCE's response is captured in the "Q02" tab in the attachment entitled "OEIS-RMWG-2024-SCE-001.xlsx".