

*Southern California Edison*  
***WSD-001 – Resolution WSD-001 to Establish Procedures for the Wildfire Safety Division's  
Review of 2020 Wildfire Mitigation Plans Pursuant to PUC Sections 8386 and 8386.3***

**DATA REQUEST SET Cal Advocates - SCE - 2020 WMP - 03**

**To: Cal Advocates**  
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**Received Date: 3/16/2020**

**Response Date: 3/18/2020**

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**Question 001:**

The following questions relate to SCE's Fire Potential Index (FPI) model.

- a. Is the FPI model based on physical modeling, statistical analysis, machine learning, or a different modeling technique?
- b. Has SCE verified or validated the accuracy and precision of its FPI model? If so, please provide a validation analysis, with plots or graphs, showing the accuracy and error of SCE's FPI model.

**Response to Question 001:**

- a. The FPI is a linear equation developed by SDG&E that incorporates dead and live fuel moisture, the state of green-up of the annual grass, and weather conditions which consists of wind speed and dew point depression. This equation is loosely based on a physical model in the sense that all inputs influence the potential for a large fire to occur. The FPI also includes a fuel loading modifier to adjust the index downward (towards lower fire potential) in areas where vegetation is sparse. This modifier incorporates a geospatial fuel loading layer to determine the amount of vegetation across each SCE circuit within its HFRA which helped to determine whether the load would be light, moderate, or heavy.
- b. SCE has not been able to validate the accuracy of the FPI due to a lack of historical data. This historical data is necessary for back-casting the index and comparing to historical fire data. For the time being, SCE has relied on SDG&E's index calibration until sufficient data can be acquired to perform a thorough calibration and analysis of the index across SCE's service territory.