

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 W S D - S C E - 0 0 2

To: WSD
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Job Title: Director Advanced Analytics
Received Date: 3/5/2020

Response Date: 3/10/2020

Question 018 (SCE-43895-C-336):

A. Item Index [For CPUC tracking purposes. Please reference this item index with the response provided.]

SCE-43895-C-336

B. Request Type

Request for additional specificity or clarification regarding information submitted in WMP or maturity survey

C. Relevant section of WMP (if applicable)

4.3 Change in Ignition Probability Drivers

D. Relevant question in Maturity Survey (if applicable)

NA

E. Relevant meeting or call (if applicable)

NA

F. Specific Data request

How does a "probability of a spark caused by an equipment failure (EFF)" and "probability of a spark caused by an identified maintenance item" differ, as discussed in section 4.3.1.1 on page 4-11?

Response to Question 018 (SCE-43895-C-336):

They do not differ in output (both produce probability values between 0 and 1) but use different mathematical methods to calculate probability. The probability of spark calculated for equipment failures and contacts with foreign objects uses a machine learning method while the probability of a spark for maintenance items uses an algebraic approach based on failure modes. A machine learning method would be preferred for maintenance but is not possible due to the lack of data on outages involving equipment identified for maintenance prior to an outage.