

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 M G R A - S C E - 0 0 6

To: MGRA

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Response Date: 3/9/2021

Question 009:

Please provide details of the consequence modeling portion of the WRRM component that calculates the risk of PSPS de-energization based on the probability of de-energization and consequence of those de-energizations (safety, reliability and financial) at the circuit level.

Response to Question 009:

Please refer to SCE’s 2021 WMP Update Table SCE 4-6 pages 59-61 for the detailed current consequence modeling for the risk of PSPS de-energization.

The WMP states the PSPS de-energization consequence is broken up into three components which are: safety, reliability and financial.

- Reliability is based on the product of the number of customers downstream that are impacted by a de-energization on a circuit and the duration, which is based on a historic back casting of 10 years of data.
- Financial impact is estimated as \$250 per customer per event informed by internal claims data.
- Safety is the number of customers impacted multiplied by a safety consequence variable. The safety consequence variable was calculated using the 2003 Northeast blackout event. Other data points include the 2011 Southwest blackout and 2019 PSPS outages in the SCE service area.
- SCE has incorporated a new targeting multiplier to its Safety index which amplifies the score based on an internal analysis of two population sets, Access and Functional Needs (AFN) customers and Non-Residential Critical Infrastructure (NRCI). SCE collects data for a subset of this population annually, which include MBL, Critical Care, Low Income, limited English proficiency, and self-certified vulnerable customers who are served by SCE. At the circuit level, SCE developed both an AFN and NRCI score to incorporate the level of support that an individual or entity would need in an emergency event or a PSPS event, in the case of an AFN customer.