

Southern California Edison
2022-WMPs – 2022 Wildfire Mitigation Plan Updates

DATA REQUEST SET O E I S - S C E - 2 2 - 0 0 5

To: Energy Safety
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Response Date: 3/31/2022

Question 03:

Technosylva's Risk Associated with Value Exposure (RAVE) module

- a. In Section 7.3.2.6.2 on Fire Spread Modeling, page 288, SCE indicates that one of the improvements being explored is the use of the Risk Associated with Value Exposure (RAVE) analysis by Technosylva.
- i. Provide a list of the community factors evaluated, including associated weights of each factor when implemented into modeling.
- ii. What is SCE's current status of implementing the RAVE module?
- iii. What are SCE's conclusions on its analysis of the RAVE module?
- iv. What is SCE's timeline for implementation of the RAVE module?
- v. How is SCE accounting for community factors in the meantime, if the RAVE module is not currently in use? In particular, describe what factors SCE considers regarding vulnerable communities, and how such are accounted for in its risk analysis and modeling, including weights.

Response to Question 03:

- i. SCE interprets "community factors" as referring to population-based factors. The population-based factors that SCE uses from the RAVE module are: "Population Count." Population count is not used as a weighted variable. Instead, population count is used in conjunction with road miles per unit of geography to derive a population egress value. These values are then indexed on a 1-9 scale.
- ii. SCE utilized several elements from the Technosylva RAVE module to develop its Severe Risk Area methodology. See pg. 208 – 223 of SCE's 2022 WMP Update for additional details on the Severe Risk Area methodology.
- iii. See response to part ii.
- iv. See response to part ii.
- v. See response to part ii. SCE has derived a circuit level Access and Functional Needs/Non-Residential Critical Infrastructure (AFN/NRCI) multiplier to rank circuits based on the vulnerability/criticality of circuits on a given circuit. At the time of the 2022 WMP Update, this information was only used as a multiplier on the safety attribute to account for PSPS risk. SCE is evaluating how this attribute may be added to its prioritization methodology for both wildfire and PSPS risk. See pg. 66 – 67 of SCE's 2022 WMP update for additional details.