

*Southern California Edison*  
*2023-WMPs – 2023-WMPs*

**DATA REQUEST SET O E I S - P - W M P \_ 2 0 2 3 - S C E - 0 0 3**

**To: Energy Safety**  
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**Job Title: Senior Advisor**  
**Received Date: 5/11/2023**

**Response Date: 5/16/2023**

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**Question 02:**

Regarding Table 8-3 of SCE's WMP:

a. SCE provides its risk calculation via the percentage of work completed within a Severe Risk Area (SRA) or High Consequence Area (HCA). Provide an updated Table 8-3 via Excel with an additional column with a value for the percentage of work being done in the top 20% risk ranked areas based on SCE's risk model output. Additionally, describe what risk model(s) SCE used to determine the risk ranking for this calculation.

**Response to Question 02:**

Please see the attached excel spreadsheet. SCE has based the analysis on its IWMS Risk Framework.

SCE notes that the "Top 20%" value provides a partial picture of a mitigation program's scope and prioritization, as a mitigation program could address a large amount of risk, and hence the share toward the top 20% risk ranked areas would be relatively small. For example, while 22% of SCE's 2023-2025 covered conductor scope is in the top 20% of the remaining overhead bare primary conductor risk ranked in HFRA, over 60% of that top 20% will be addressed by this covered conductor scope from 2023-2025. SCE plans to address a significant majority of remaining overhead bare conductor miles in the top 20% with targeted undergrounding.

Because mitigations are designed to address specific types of assets and risk issues, the maximum risk that can be addressed by each mitigation program is defined relative to where it can be deployed. For example, covered conductor and targeted undergrounding are limited to areas with remaining uncovered overhead conductor in HFRA, and SCE has calculated how much of its 2023-2025 scope will address the risk ranked top 20% of those remaining uncovered miles.

Please see below for how SCE determined the total risk population for different mitigations.

- The total risk population for Covered Conductor (SH-1) and Targeted Undergrounding (SH-2) is based on remaining overhead bare primary conductors in HFRA.
- The total risk population for Long Span Initiative (SH-14) is based on bare conductor spans identified via LiDAR as having potential conductor clash issues that have not yet been remediated.
- The total risk population for Vibration Damper Retrofit (SH-16) is based on covered conductor spans installed prior to Q4 2020 (i.e., before SCE implemented revised installation practices) with a high or medium vibration susceptibility risk, in which wind

conditions may reduce the covered conductor's useful life.

- The total risk population for REFCL Ground Fault Neutralizer (SH-17) is based on circuits tied to substations with fewer than 5 miles of underground single-phase cables<sup>1</sup> and more than 10 miles of HFRA circuitry fed out of the substation.

SCE has not calculated the "Top 20%" value for programs that will be sunseting by 2025, as these programs are nearing the end of deployment and risk prioritization is not a driving consideration in scoping decisions. Programs meeting these criteria include:

- Branch Line Protection strategy (SH-4)
- Circuit Breaker Relay Hardware for Fast Curve (SH-6)
- Tree Attachments Remediation (SH-10)
- Vertical Switches (SH-15)

SCE has also not calculated the "Top 20%" value for programs that are pilots or new technologies in the testing phase or for which scope has not been fully developed. Programs meeting these criteria include:

- Transmission Open Phase Detection (SH-8)
- REFCL Grounding Conversion (SH-18)

Finally, SCE has not calculated the "Top 20%" value for programs that are largely informed by PSPS reduction considerations. Programs meeting these criteria include:

- Remote Controlled Automatic Reclosers Settings Update (SH-5)

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<sup>1</sup> Circuits tied to substations known to have single-phase cables that can be easily upgraded were included in the total population.