

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

DATA REQUEST SET OEIS - SCE - 22 - 008

To: Energy Safety
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Response Date: 5/13/2022

Question 03:

Grid hardening and associated risk modeling output

a. Provide the percentage of work being performed in the top 20% of risk ranked circuits based on risk model output, broken down annually for 2022, 2023, and 2024, for the following:

- a. All grid hardening initiatives
- b. Covered conductor
- c. Undergrounding

b. Provide a similar Excel table with the same original and additional columns as discussed in the previous request OEIS-SCE-22-003 Q09ai, but for all scheduled covered conductor and undergrounding projects in 2022. Include additional columns with the associated circuit risk ranking scores based on 2021 and 2022 risk model outputs.

Response to Question 03:

- a. The breakout of relative risk for a, b, c is found in the table below: Covered Conductor (SH-1), Undergrounding (SH-2), Tree Attachments SH-10, Long Span Initiative SH-14, and Vibration Damper Retrofit SH-16 are grid hardening initiatives whose deployment is risk-prioritized. Other system hardening mitigations were prioritized based on operational considerations, not risk.

SCE calculated the top 20% based on the remaining scope and the risk model that was used for scoping that program for a given year. As an illustrative example, for the 2022 covered conductor scope, SCE utilized the version of its Wildfire Risk Reduction Model (WRRM) that was in effect at the time when a significant portion the 2022 scope was planned.¹ SCE then determined the top 20% riskiest HFRA circuit segments that were not covered. For 2023 covered conductor scope, SCE recalculated the top 20% riskiest HFRA circuit segments that were not covered or undergrounded, assuming that the 2022 scope was now covered.

There is no 2024 scope provided for the initiatives below (with the exception of Vibration Dampers (SH-16)), because the specific locations for 2024 scope have not been determined with sufficient certainty to conduct the requested analysis.

SCE also notes that for Tree Attachments (SH-10) and LSI (SH-14), the percentage of 2022

¹ Given the long and variable lead times for covered conductor, different versions of SCE's WRRM were used to scope portions of SCE's 2022 scope. SCE selected the most recent version used to determine 2022 scope to answer the covered conductor-related sections of this Q.03 and Q.04.

and of 2023 scope targeted for the top 20% residual risk appears relatively smaller, but that is partially because the entire scope planned for those years is sufficiently large that the portion that is focused on the top 20% is a minority of the overall amount of work (e.g. if a hypothetical program was deployed to entirely mitigate a hypothetical risk in a given year, only 20% of that program would be targeted at the top 20% of the risk). Accordingly, while a relatively minor portion of the total 2022 and 2023 scope for SH-10 is focused on the top 20% of risk, it is a significant amount of activity that will remediate 77% of the top 20% remaining LSI scope in 2022 and 67% of the top 20% remaining Tree Attachment scope in 2022.

In addition, the table below represents SCE's understanding of its planned scope as of the date it prepared its 2022 WMP Update. Scope is subject to change due to permitting, customer constraints, and other operational issues.

Program	Year	Target % for Top 20% Residual Risk
Covered Conductor SH-1	2022 scope	46.4%
Covered Conductor SH-1	2023 scope	48.6%
Covered Conductor SH-1	2024 scope	N/A
Undergrounding Overhead Conductor SH-2	2022 scope	91.3%
Undergrounding Overhead Conductor SH-2	2023 scope	100.0%
Undergrounding Overhead Conductor SH-2	2024 scope	N/A
Tree Attachment Remediation SH-10	2022 scope	20.0%
Tree Attachment Remediation SH-10	2023 scope	22.2%
Tree Attachment Remediation SH-10	2024 scope	N/A
Long Span Initiative (LSI) SH-14	2022 scope	16.7%
Long Span Initiative (LSI) SH-14	2023 scope	19.2%
Long Span Initiative (LSI) SH-14	2024 scope	N/A
Vibration Damper Retrofit SH-16	2022 scope	98.2%
Vibration Damper Retrofit SH-16	2023 scope	90.7%
Vibration Damper Retrofit SH-16	2024 scope	79.4%

b.

CONFIDENTIAL

The Attachment(s) Are Marked Confidential In Accordance With California Code of Regulations Title 14, Division 17, Chapter 1, Article 1, § 29200 and In Accordance With The Confidentiality Bases Set Forth In California Public Utilities Commission Decision 16-08- 024 and Decision 17-09023 of R.14-11-001. Basis for Confidentiality In Accompanying Confidentiality Declaration. Public Disclosure Restricted.

Please see Excel file “Confidential_OEIS-SCE-22-008_scope2022 rank” for available risk data on scoped 2022 covered conductor and undergrounding projects.