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 8

To: Energy Safety
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Job Title: Consulting Engineer
Received Date: 6/20/2023

Response Date: 6/23/2023

Question 01:
Regarding Early Fault Detection Prioritization:
a. SCE aims to implement 50 installations of Early Fault Detection (EFD) technology per year in 2023 and 2024, and 200 installations in 2025.1 These installations will focus on locations where covered conductor has already been deployed in order to further mitigate the risk of ignitions.2 Please provide details on the analysis or methodology used to prioritize the specific locations where this technology will be implemented.

Response to Question 01:

The methodology used for selecting EFD installation locations used circuit-level risk assessments to identify candidate circuits for EFD installations. EFD installations are scoped at the circuit level, benefitting from efficiencies in both the design and construction processes. SCE's scope selection process is based on selecting EFD sites that provide the greatest expected risk reduction. Therefore, to maximize risk reduction at the circuit level, SCE estimated the EFD installation quantities for the circuits based on HFRA circuit miles. These estimated sensor installation quantities were used to calculate a risk per sensor benefit at the circuit level. SCE selected the circuits which provided the maximum or most efficient anticipated risk reduction based on the EFD sensor scope. This includes areas where covered conductor has been applied in SCE's highest risk HFRA locations, in which case EFD scope is paired with covered conductor to further reduce the remaining risk not addressed by covered conductor.