



Risk Assessment and Mitigation Phase

(Chapter SDG&E-Risk-1-QWP)

Wildfire Involving SDG&E Equipment

Workpapers

May 17, 2021

Overall Workpaper Description	This workpaper file explains the risk scoring and Risk Spend Efficiency (RSE) quantification. It contains necessary information and sources for calculating the risk score and RSE for respective mitigations and controls filed in the 2021 RAMP.
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"Master Inputs" Tab	This sheet contains the major MAVF inputs for risk scoring
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"RSE Summary" Tab	This sheet presents a summarized view of RSE scoring
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RSE Equation	$\text{Risk Reduction} = (\text{Pre} - \text{Mitigated LoRE} + \text{Pre} - \text{Mitigated CoRE}) - (\text{Post} - \text{Mitigated LoRE} + \text{Post} - \text{Mitigated CoRE})$ $\text{Discounted Time} = 1 - \left(\frac{1}{(1 + \text{Benefit Discount Rate})^{\text{Benefits Lifetime}}} \right) \cdot \text{Benefit Discount Rate}$ $\text{RSE per \$M} = \frac{\text{Risk Reduction} * \text{Discounted Time}}{\text{Total Cost (\$M)}}$
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Master Inputs

Discount Factors

Benefit Discount Factor 3.00%

MAVF Framework

	Range	Weight
Safety Index	20	60%
Reliability Index	1	23%
Financial Cost	500	15%
Stakeholder Satisfaction Index	100	2%

