

Southern California Edison
A.09-09-022 – Alberhill PTC & CPCN

DATA REQUEST SET J W S - S C E - 0 3

To: Energy Division
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Question 07:

Explain the types of threats that Edison is designing the system to withstand. As feasible, include the initiating events and scenarios (and their-probabilities) that Edison is incorporating into its risk analysis and sub-transmission reliability planning.

Response to Question 07:

Per the Southern California Edison (SCE) Subtransmission Planning Criteria and Guidelines, “Unlikely Contingencies” (beyond N-1 scenarios) are studied to determine their effect on system performance. When such contingencies result in load interruption, loss of a generating source, risk of damage to SCE’s electric facilities, or risk of cascading outages, projects to minimize the problems are considered. However, SCE does not typically design explicitly for such events. Rather SCE designs to its planning criteria (N-0 and N-1); but, when evaluating the performance of alternative solutions, gives favor to those that also demonstrate improved resiliency in a cost-effective manner.

The types of initiating events are described in the response to Question 4 above. SCE has no specific standard for what events and frequencies need to be considered for a project; rather they are considered individually for a project based on its unique elements. In the case of the forthcoming Alberhill System Project Planning Study and associated cost/benefit analysis, they are derived from historical SCE and industry line and transformer failure rates and are not developed based on specific event scenarios.

