SOUTHERN CALIFORNIA EDISON®

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Southern California Edison

El Niño Mitigation Activities

Prepared by:
Business Resiliency
Transmission and Distribution
Power Production

2015-16 El Niño Mitigation Activities

Based on our assessments, the following areas of focus were identified and mitigation activities are underway for:

Area of Focus	Mitigation Activities
Safety awareness for SCE personnel	➢ Refresher training for personnel ➢ El Niño Preparedness discussions during tailboards ➢ El Niño Preparedness discussions during Safety Congresses ➢ Advanced safety and rescue training for personnel operating in remote locations (hydro generation locations)
Equipment to support efficient and safe operations for SCE personnel	➢ Ensure Personal Protective Equipment (PPE) needs for employees, including supplies to support response during emergency conditions ➢ Ensure vehicle readiness (fuel levels, winter servicing, equipped for severe weather)
Making SCE customers and stakeholders aware of potential El Niño impacts	➢ El Niño Communications Strategy ➢ Discussions of emergency operations with collaborating agencies[1]
Loss of Santa Clara-Goleta 220kV transmission lines would result in a temporary system blackout for the Goleta area (including Santa Barbara) due to loss of both source lines serving the Goleta system.	➢ Goleta (including Santa Barbara) Restoration Strategy
Reducing impacts to Transmission towers due to increased erosion during runoff	➢ Pre-storm season patrols on line sections identified in the transmission mitigation plan ➢ Mitigate impacts based on inspection results ➢ Monitor targeted line sections throughout the course of the storm ➢ Post-storm patrol of select transmission lines

[1] City, County, and State Emergency Management agencies, Government Land agencies, Regional Environmental agencies, California Highway Patrol and Electric Utilities

Reducing impacts to Distribution circuits due to hazardous storm conditions	➢ Pre-storm season inspections and patrols at identified circuits ➢ Mitigate impacts based on inspection results ➢ Re-inspect each identified circuit after any significant storm
Reducing impacts to Substations due to flooding	➢ Pre-storm season inspections and maintenance at identified substations ➢ Mitigate impacts based on inspection results ➢ Post-storm inspections and maintenance at identified substations
Reducing impact to hydro infrastructure due to hazardous storm conditions	➢ Pre-storm season inspections and maintenance ➢ Post-storm inspections and maintenance ➢ Use forecasted events to prepare operations to reduce potential impacts
Reducing impact to gas generation infrastructure due to hazardous storm conditions	➢ Pre-storm season inspections and maintenance ➢ Post-storm inspections and maintenance ➢ Use forecasted events to prepare operations to reduce potential impacts
Ensure the ability to access infrastructure in hazardous conditions (road access, right of way access)	➢ Pre-storm season inspections and maintenance ➢ Post-storm inspections and maintenance ➢ Renting, and pre-staging, heavy equipment to supplement operations in remote areas
Maintain appropriate electrical equipment inventory during storm season	➢ Review inventory counts of critical electrical equipment (poles, transformers, generators, cable, etc.) ➢ Stock equipment to appropriate levels as necessary ➢ Pre-stage critical equipment and materials at strategic locations
Ensure the availability of response personnel during a storm event	➢ Use enhanced situational awareness and identify availability of crew during non-working hours ➢ Pre-stage resources when and where appropriate ➢ Utilize mutual assistance protocols as necessary to support operations