



Melvin Stark
Principal Manager
OE-T&D Compliance & Quality

June 19, 2023

Fadi Daye, P.E.
Program & Project Supervisor
Electric and Safety Reliability Branch
Safety and Enforcement Division
California Public Utilities Commission
320 West 4th St., Ste. 500
Los Angeles, California 90013

SA2023-1046

Subject: Substation Audit of Southern California Edison's El Nido Switching Center

Dear Mr. Daye:

Your letter, dated May 16, 2023, requested that we advise you of actions taken by Southern California Edison Company (SCE) to address conditions identified during the Safety and Enforcement Division's (SED's) substation audit of El Nido's Switching Center from February 27, 2023, to March 3, 2023.

Your letter requested a response by June 19, 2023. Attached are the conditions mentioned in your letter, and our responses and corresponding actions.

A handwritten signature in black ink, appearing to read "Mel Stark".

Mel Stark
Principal Manager, OE-T&D Compliance & Quality
1 Innovation Way
Pomona, CA 91768

Enclosures: SED Audit Findings and SCE's Responses

Cc: Lee Palmer, Director, Safety and Enforcement Division, CPUC
Nika Kjensli, Program Manager, ESRB, SED, CPUC Mily
Vaidya, Utilities Engineer, ESRB, SED, CPUC

AUDIT FINDINGS

I. Records Review

During the audit, my staff reviewed the following records:

- SCE GO 174 Substation Inspection Practices
- SCE Section 6.09 Substation Inspections, Operators Manual
- SCE Substation Policies and Procedures (oil testing, battery, counter results, infrared testing, fire extinguisher inspections, electrical testing, updated ground grid testing GGT Rev 1).
- SCE RMP-02, Protection System Maintenance Program
- SCE SC&M Maintenance and Inspection Manual Sections 4, 5, and 6 (Oil Testing)
- Summary of SCE El Nido District Substation Inspector Training Records
- Summary of Substation Inspections in the El Nido District
- Pending and Completed Work orders for 2022
- Summary of results of infrared testing in 2022

II. Field Inspections

My staff inspected the following facilities during the field inspection:

No.	Substation Name
1	COSMIC SUBSTATION
2	HOWARD SUBSTATION
3	ROSECRANS SUBSTATION
4	DOUGLAS SUBSTATION
5	SERVER SUBSTATION
6	SEPULVEDA SUBSTATION
7	FELTON SUBSTATION
8	BRIDGE SUBSTATION
9	MARINE SUBSTATION
10	OCEAN PARK SUBSTATION
11	TAHITI SUBSTATION
12	MANHATTAN SUBSTATION
13	REDONDO SUBSTATION
14	TORRANCE SUBSTATION
15	PALOS VERDES SUBSTATION
16	MARYMOUNT SUBSTATION
17	BLUFF COVE SUBSTATION
18	ROLLING HILLS SUBSTATION

III. Field Inspection - Violations List

My staff observed the following violations during the field inspections portion of the audit:

GO 174, Rule 12, General, states in part:

Substations shall be designed, constructed, and maintained for their intended use, regard being given to the conditions under which they are to be operated, to promote the safety of workers and the public and enable adequacy of service.

Design, construction, and maintenance should be performed in accordance with accepted good practices for the given local conditions known at the time by those responsible.

Facilities at the following substations were not maintained for their intended use:

Cosmic Substation

- Along an interior substation fence, staff discovered a gate that was not locked and secured because of a damaged foundation footing.

SCE Response:

The condition listed above has been recorded in SCE's Work Management System and will be addressed in accordance with SCE's maintenance program.

- *Along an interior substation fence, staff discovered a gate that was not locked and secured because of a damaged foundation footing. SCE Response: Due Date 08/16/2023.*

Rosecrans Substation

- A potential transformer associated with the Sepulveda line had corrosion on the secondary side.

SCE Response:

SCE made repairs to the potential transformer on 05/26/2023.

Douglas Substation

- A fire extinguisher was not inspected as required.

SCE Response:

SCE replaced the fire extinguisher on 05/26/2023.

Server Substation

- Warning signs were faded and not easily readable.

SCE Response:

SCE replaced the warning signs on 05/30/2023.

Sepulveda Substation

- There was no chemical hazard warning sign at the entrance of a room that stored batteries.
- A transformer fan cabinet door was not functional because the hinge was broken and corroded.

SCE Response:

SCE made the following repairs:

- *Installed chemical hazard warning signs on 06/06/2023.*
- *Repaired the cabinet door on 06/06/2023.*

Felton Substation

- Vegetation and other debris were found under the radiator of the “4 Bank 16/4kV” Transformer.
- The No. 1-2-3-4 16kV bank circuit breaker grounding cover was loose.
- There was no chemical hazard sign for the battery storage unit.

SCE Response:

SCE made the following repairs:

- *Removed vegetation and other debris from beneath the transformer on 05/26/2023.*
- *Replaced the grounding cover on 05/26/2023.*
- *Installed a chemical hazard warning sign on 06/06/2023.*

Tahiti Substation

- There was no chemical hazard sign for the battery storage unit.
- There was a bird nest in circuit breaker CB44 on line CB503.
- There was corrosion in a 3-phase AC panel cabinet.

SCE Response:

SCE made the following repairs:

- *Installed a chemical hazard warning sign on 06/06/2023.*
- *Removed the bird nest on 05/26/2023.*
- *Made repairs to the cabinet on 05/26/2023.*

Manhattan Substation

- There was no chemical hazard sign for the battery storage unit.

SCE Response:

SCE installed a chemical hazard warning sign on 06/06/2023.

Redondo Substation

- There was no chemical hazard sign for the battery storage unit.

SCE Response:

SCE installed a chemical hazard warning sign on 06/06/2023.

Torrance Substation

- There was no chemical hazard sign for the battery storage unit.
- A fire extinguisher was missing from the substation.

SCE Response:

SCE made the following repairs:

- *Installed a chemical hazard warning sign on 06/06/2023.*
- *Installed a new fire extinguisher on 05/26/2023.*

Palos Verdes Substation

- There was a beehive in the entrance to the control room.
- There was no chemical hazard sign for the battery storage unit.

SCE Response:

SCE made the following repairs:

- *Removed the beehive on 05/26/2023.*
- *Installed a chemical hazard warning sign on 06/06/2023.*

Bluff Cove Substation

- There was no chemical hazard sign for the battery storage unit.

SCE Response:

SCE installed a chemical hazard warning sign on 06/06/2023.