

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



February 16, 2024

SA2023-1106

Melvin Stark
Principle Manager, T&D Compliance Integration
Southern California Edison Company
1 Innovation Way
Pomona, CA 91786

SUBJECT: Substation Audit of SCE Orange County switching Center

Mr. Stark:

On behalf of the Electric Safety and Reliability Branch of the California Public Utilities Commission (CPUC), Kyle King of my staff conducted a substation audit of SCE Orange County Switching Center from December 11-15, 2023. The audit included a review of SCE's records and field inspections of SCE's Orange County substation facilities.

During the audit, my staff identified violations of one or more General Orders (GOs). A copy of the audit findings itemizing the violations is enclosed. Please advise me no later than March 18, 2024, by electronic or hard copy, of all corrective measures taken by SCE to remedy and prevent such violations.

Please note that ESRB will be posting the audit report and your response to our audit on the CPUC website. If there is any information in your response that you would like us to consider as confidential, we request that in addition to your confidential response, you also provide us with a public or redacted version of your response that can be posted publicly on our website.

If you have any questions concerning this audit, you can contact Kyle King at (213) 222-3260 or Kyle.King@cpuc.ca.gov.

Sincerely,

A handwritten signature in blue ink that reads "Fadi Daye".

Fadi Daye, P.E.
Program and Project Supervisor
Electric Safety and Reliability Branch
Safety and Enforcement Division
California Public Utilities Commission

Enclosures: Audit Findings

Cc: Leslie Palmer, Director, Safety and Enforcement Division, CPUC
Nika Kjensli, Program Manager, ESRB, SED, CPUC
Derek Fong, Senior Utilities Engineer Supervisor, ESRB, SED, CPUC
Kyle King, Utilities Engineer, ESRB, SED, CPUC

AUDIT FINDINGS

I. Records Review

During the audit, my staff reviewed the following records:

- SCE GO 174 Substation Inspection Process
- SCE GO 174 Substation Inspection Program
- SCE SOP Protection System Maintenance Program.
- Substation Operators Training Records
- Summary of Substation Inspections
- Inspection Checklists and One-Line Diagrams for ten substations
- Recent open and completed work orders
- Summary of results of Infrared Testing in 2022
- Oil sample testing results
- Infrared inspection records

II. Field Inspections

My staff inspected the following substation facilities during the field inspection:

No.	Substation ID	Location
1	Modena	4725 E. Chapman Ave.
2	Bryan	2031 Bryan St.
3	Orange	233 N. Batavia St.
4	Placentia	200 S. Placentia Ave.
5	Burriss Pit (Burpit)	14899 Ball Road., Taft Ave. E/O 57 Fwy
6	Moulton	24731 Bridger Rd.
7	Limestone	2541 Trabuco Rd.
8	Irvine	6921 Trabuco Rd.
9	Las Lomas	TBD C/O Jeffrey Rd & Portola Pkwy (Northwood Area)
10	Estrella	16932 Murphy St.
11	Apollo	TBD Rancho Rd., Between Bolsa Chica Rd. & South Pacific R/R
12	Bolsa	1597 Graham St.
13	Oceanview	8081 E. Warner Ave.
14	Slater	18751 Edwards St.
15	Recovery	20101 Goldenwest St., N/W C/O Of Pch(Hwy1) & Goldenwest
16	Soco	20101 Goldenwest St., N/W C/O Of Pch(Hwy1) & Goldenwest
17	La Habra	1151 Lambert Rd.
18	Parkwood	1530 Imperial Hwy.
19	Sunnyhills	901 W. Malvern Ave.
20	Fullerton	218 Walnut Ave.
21	Titans	800 N. State College Blvd.

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:

Modena Substation

- The Arabia 12 kV Circuit Breaker Bus was leaking oil.

Bryan Substation

- The No. 1 South Bank 66/12 kV Bank had an inoperable fan.

Orange Substation

- The No. 1 Bank 66/12 kV North Unit Transformer was leaking oil.

Placentia Substation

- The No. 1 South Bank 66/12 kV Unit Transformer had an inoperable fan.

Moulton Substation

- The Santiago Limestone 66 kV Potential Transformer Circuit Breaker spigot was leaking oil down a valve.

Limestone Substation

- The No. 3 Bank Transformer 66/12 kV East Unit confined space permit sign was missing.
- The “Do Not Enter” signage needs to be replaced.

Irvine Substation

- The No. 1 Bank Transformer 66/12 kV North Unit confined space permit sign was missing.
- The “Do Not Enter” signage needs to be replaced.
- The No. 2 Bank Transformer North Unit 66/12 kV confined space permit sign was missing.

Slater Substation

- The No. 4 West Bank Transformer 66/12 kV West Unit was leaking oil.

La Habra Substation

- The No. 2 Bank Transformer 66/12 kV South Unit was leaking oil.
- The No. 2 Bank Transformer 66/12 kV North Unit was leaking oil.

Fullerton Substation

- The No. 4 Bank 66/12 kV North Unit was leaking oil.

Titans Substation

- The Transformer No. 1-2 66 kV Circuit Breaker had damaged signage.