

## PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



November 14, 2024

SA2024-1208

Melvin Stark  
Principal Manager, T&D Compliance Integration  
Southern California Edison  
1 Innovation Way  
Pomona, CA 91768

**SUBJECT:** Substation Audit of Southern California Edison Mira Loma AOR

Mr. Stark:

On behalf of the Electric Safety and Reliability Branch of the California Public Utilities Commission (CPUC), Calvin Choi of my staff conducted a substation audit of Southern California Edison (SCE) Mira Loma AOR from September 23, 2024 to September 27, 2024. The audit included a review of SCE's records and field inspections of SCE's 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 December 16, 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 Calvin Choi at (213) 266-4730 or [Calvin.Choi@cpuc.ca.gov](mailto:Calvin.Choi@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: Lee Palmer, Director, Safety and Enforcement Division, CPUC  
Nika Kjensli, Program Manager, ESRB, SED, CPUC  
Calvin Choi, 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
- Section 6.9 Substation Inspections, of SCE's Operators Manual
- SCE's Substation Procedures
- Summary of SCE Mira Loma AOR Substation Operators Training Records
- Summary of Substation Inspections
- Inspection Checklists and One-Line Diagrams
- Pending and Completed Workorders
- Summary of results of Infrared Testing
- Summary of results from substation Dissolved Gas Analysis

### II. Records Review – Violations List

My staff observed the following violations during the records review portion of the audit:

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

*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.*

Between July 2019 and July 2024, SCE failed to complete 15 work orders by SCE's assigned due date.

### III. Field Inspections

My staff inspected the following facilities during the field inspection:

No.	Substation Name
1	Mira Loma
2	Archibald
3	Milliken
4	Firehouse
5	Ontario
6	Narod
7	Chase
8	Jefferson
9	Perez
10	El Sobrante
11	Pedley
12	Kimball
13	Chino
14	Padua
15	Upland
16	San Antonio
17	Live Oak
18	Layfair
19	Diamond Bar
20	Grand Crossing
21	Nogales
22	Trophy
23	Cortez
24	Merced
25	Puente
26	Railroad

#### **IV. 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:

##### **Archibald**

- One cooling fan on the No. 1 Bank South Unit transformer was not starting.

##### **Chase**

- One cooling fan on the No. 1 Bank South Unit transformer was not starting.

##### **Chino**

- One cooling fan on the No. 6 Bank East Unit transformer was not starting.

##### **Upland**

- Oil was weeping from the radiator flanges on the No. 4 Bank North Unit transformer and No. 4 Bank South Unit transformer.

##### **Merced**

- There was no safety chain around the area under the No. 2 Capacitor Bank fuses.