

## PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



June 14, 2024

SA2024-1132

Melvin Stark  
Principal Manager, T&D Compliance Integration  
Southern California Edison Company (SCE)  
1 Innovation Way  
Pomona, CA 91786

**SUBJECT:** Substation Audit of SCE Rector 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) Rector AOR from April 22-26, 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 July 15, 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 Substation Inspection Procedures
- SCE's Substation Procedures
- Summary of SCE Rector AOR Substation Operators Training Records
- Summary of SCE Rector AOR Substation Inspections
- Pending and Completed Workorders
- Summary of results of Infrared Testing
- Summary of results from Substation Oil Sample Tests

## II. Field Inspections

My staff inspected the following facilities during the field inspection:

No.	Substation Name	Address
1	Hanford	311 W. Fifth, Hanford, 93232 CA
2	Mascot	C/O Grangeville & State Hwy 41, Hanford, 93230 CA
3	Goshen	Hwy. 198 & Road 60, Goshen, 93227 CA
4	Riverway	C/O Mooney Blvd & Ranch Circle, Visalia, 93277 CA
5	Visalia	S/W C/O E. Main St & Ben Maddox Way, Visalia, 93292 CA
6	Liberty	Road 108 & Avenue 272, Visalia, 93277 CA
7	Bliss	Road 164 & Avenue 208, Tulare, 93274 CA
8	Woodville	Road 176 & Avenue 160, Woodville, 93258 CA
9	Porterville	95 N. Cottage St, Porterville, 93257 CA
10	Tipton	Road 120 & Avenue 144, Tipton, 93272 CA
11	Octol	Road 80 & Avenue 184, Tulare, 93274 CA
12	Protein	800 E. Paige Avenue, Tulare, 93274 CA
13	Tulare	368 N. Blackstone Avenue, Tulare, 93274 CA
14	Pixley	Road 120 & Avenue 96, Pixley, 93256 CA
15	Earlimart	Road 144 & Avenue 56, Earlimart, 93219 CA
16	Columbine	1/4 Mi. E/O Road 160 & Avenue 24, Delano, 93215 CA
17	Delano	N/E C/O 14th & Lexington St., Delano, 93216 CA
18	Browning	C/O Peterson Rd & Driver Rd, Delano, 93274 CA

### **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:

#### **Hanford**

- One cooling fan on the No 2 Bank 66/12 kV South Unit transformer was not starting.
- One cooling fan on the No 2 Bank 66/12 kV North Unit transformer was not starting.
- One cooling fan on the No 3 Bank 66/12 kV North Unit transformer was not starting.

#### **Visalia**

- One cooling fan on the No 1 Bank 66/12 kV North Unit transformer was not starting.

#### **Liberty**

- Three cooling fans on the No 1 Bank 66/12 kV South Unit transformer were not starting.
- Two cooling fans on the No 1 Bank 66/12 kV North Unit transformer were not starting.
- There were no high voltage warning signs along the outside of the perimeter fence along 10717 Ave. 272.

#### **Bliss**

- One cooling fan on the No 1 Bank 66/12 kV South Unit transformer was not starting and two fans were not coming up to speed.

#### **Porterville**

- One cooling fan on the No 2 Bank 66/12 kV South Unit transformer was not starting.
- All transformers for the No 4 Bank 66/4 kV had low oil level.
- There was a hotspot on the Hatfield C Phase bus disconnect switch compared to the other switches.

### **Tipton**

- One cooling fan on the No 1 Bank 66/12 kV East Unit transformer was not starting.
- One cooling fan on the No 2 Bank 66/12 kV transformer was not starting.

### **Tulare**

- The safety perimeter chain around the No 4 capacitor bank 12 kV fuse was broken.

### **Pixley**

- The safety perimeter chain around the No 1 capacitor bank 12 kV fuse was broken.
- Four cooling fans on the No 2 Bank 66/12 kV transformer were not starting.

### **Earlimart**

- One cooling fan on the No 2 Bank 66/12 kV transformer was not starting.

### **Columbine**

- The sudden pressure pop-off valve was not removed according to manufacturer specifications for the 12 kV station lights and power transformer.