



**Melvin Stark**  
Principal Manager  
EHSQ-T&D Compliance & Quality

July 15, 2024

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

**SUBJECT:** SA2024-1132, Substation Audit of SCE Rector AOR

Dear Mr. Daye:

Your letter, dated June 14, 2024, 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 Rector Switching Center from April 22, 2024 to April 26, 2024.

Your letter requested a response by July 15, 2024. 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", with a long horizontal stroke extending to the right.

Mel Stark  
Principal Manager, EHSQ-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  
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.

#### ***SCE Response:***

*The conditions listed above have been recorded in SCE's Work Management System and they were addressed in accordance with SCE's maintenance program.*

- *One cooling fan on the No 2 Bank 66/12 kV South Unit transformer not starting.  
SCE Response: Completed on 07/12/2024.*
- *One cooling fan on the No 2 Bank 66/12 kV North Unit transformer not starting.  
SCE Response: SCE field personnel visited the site on 7/11/2024 and confirmed the aforementioned cooling fan is operational. No further action is required.*
- *One cooling fan on the No 3 Bank 66/12 kV North Unit transformer not starting.  
SCE Response: SCE field personnel visited the site on 7/11/2024 and confirmed the aforementioned cooling fan is operational. No further action is required.*

#### **Visalia**

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

#### ***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.*

- *One cooling fan on the No 1 Bank 66/12 kV North Unit transformer not starting.  
SCE Response: Due Date 07/05/2030.*

#### **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.

***SCE Response:***

*Two of the conditions listed above were previously recorded in SCE's Work Management System at the time of the audit and they will be addressed in accordance with SCE's maintenance program. The remaining condition has been recorded in SCE's Work Management System and will be addressed in accordance with SCE's maintenance program.*

- *Three cooling fans on the No 1 Bank 66/12 kV South Unit transformer were not starting. **SCE Response:** Due Date 5/6/2030.*
- *Two cooling fans on the No 1 Bank 66/12 kV North Unit transformer were not starting. **SCE Response:** Due Date 6/4/2030.*
- *Missing high voltage warning signs along the outside of the perimeter fence. **SCE Response:** Due Date 07/08/2030.*

**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.

***SCE Response:***

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

- *One cooling fan on the No 1 Bank 66/12 kV South Unit transformer not starting and two fans not coming up to speed. **SCE Response:** Completed on 5/20/2024.*

**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.

***SCE Response:***

*One of the conditions listed above was previously recorded in SCE's Work Management System at the time of the audit and was addressed in accordance with SCE's maintenance program. The remaining two conditions have been recorded in SCE's Work Management System and they will be addressed in accordance with SCE's maintenance program.*

- *One cooling fan on the No 2 Bank 66/12 kV South Unit transformer not starting. **SCE Response:** Completed on 5/31/2024.*
- *No 4 Bank 66/4 kV Transformers indicate low oil level. **SCE Response:** Due Date 5/16/2025.*
- *Hotspot on the Hatfield C Phase bus disconnect switch. **SCE Response:** Due Date 7/5/2030.*

### **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.

#### ***SCE Response:***

*The conditions listed above were previously recorded in SCE's Work Management System and they will be addressed in accordance with SCE's maintenance program.*

- *One cooling fan on the No 1 Bank 66/12 kV East Unit transformer not starting. **SCE Response:** Due Date 1/29/2029.*
- *One cooling fan on the No 2 Bank 66/12 kV transformer not starting. **SCE Response:** SCE field personnel visited the site on 5/31/2024 and confirmed the aforementioned cooling fan is operational. No further action is required.*

### **Tulare**

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

#### ***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.*

- *Broken safety perimeter chain around the No 4 capacitor bank 12 kV fuse. **SCE Response:** Completed on 07/12/2024.*

### **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.

#### ***SCE Response:***

*One of the conditions listed above was previously recorded in SCE's Work Management System at the time of the audit and it will be addressed in accordance with SCE's maintenance program. The remaining condition has been recorded in SCE's Work Management System and will be addressed in accordance with SCE's maintenance program.*

- *Broken safety perimeter chain around the No 1 capacitor bank 12 kV fuse. **SCE Response:** Completed on 07/12/2024.*
- *Four cooling fans on the No 2 Bank 66/12 kV transformer not starting. **SCE Response:** Due Date 12/3/2029.*

### **Earlimart**

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

#### ***SCE Response:***

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

- *One cooling fan on the No 2 Bank 66/12 kV transformer not starting. **SCE Response:** Due Date 6/27/2029.*

## **Columbine**

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

### ***SCE Response:***

*The condition listed above was previously recorded in SCE's Work Management System and was addressed in accordance with SCE's maintenance program.*

- *Sudden pressure pop-off valve not removed according to manufacturer specifications for the 12 kV station lights and power transformer. **SCE Response:** Completed on 5/29/2024.*