STATE OF CALIFORNIA GAVIN NEWSOM, *Governor*

PUBLIC UTILITIES COMMISSION
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298

June 8, 2022 SA2022-949

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

SUBJECT: Substation Audit of Southern California Edison's Valley Switching Center

Mr. Stark:

On behalf of the Electric Safety and Reliability Branch (ESRB) of the California Public Utilities Commission (CPUC), James Miller of my staff conducted a substation audit of Southern California Edison's (SCE) Valley Switching Center from April 11, 2022 to April 15, 2022. The audit included a review of SCE's records and field inspections of SCE's 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 8, 2022, by electronic or hard copy, of all corrective measures taken by SCE to remedy and prevent the recurrence of such violations in the future.

If you have any questions concerning this audit, please contact James Miller at (213) 660-8898 or James.Miller@cpuc.ca.gov.

Sincerely,

Fadi Daye

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

Enclosures: CPUC Audit Findings

Cc: Lee Palmer, Director, Safety and Enforcement Division, CPUC
Nika Kjensli, Program Manager, Electric Safety and Reliability Branch, CPUC
Majed Ibrahim, Senior Utilities Engineer, ESRB, SED, CPUC
James Miller, Utilities Engineer, ESRB, SED, CPUC

AUDIT FINDINGS

I. Records Review

During the audit, my staff reviewed the following records and documents:

- Current Substation Inspection Procedures
- Current Substation Equipment Testing Procedures
- Substation Inspector Training Records
- Substation Inspection Records
- Oil Sample Testing Results
- Infrared Inspection Records
- Recent Open and Completed Work Orders Generated from Inspections

II. Field Inspections

My staff inspected the following substations during the field inspections:

Substation	Location	City
Auld	Liberty Rd. Between Los Alamos Rd. & Alta Loma Ln.	Murrietta
Bunker	3167 Wilson Ave.	Perris
Canyon Lake	32620 Railroad Canyon Rd.	Canyon Lake
Elsinore	Spring St. and Pottery St.	Elsinore
Fogarty	Terra Cotta Rd. & Hoff Ave.	Lake Elsinore
Ivyglen	24723 Temescal Canyon Rd.	Glen Ivy
Karma	Adjacent to Mirage Sub.	Thousand Palms
Lakeview	10389 10th St.	Nuevo
Maxwell	Ironwood Ave. and Heacock St.	Sunnymead
Mayberry	Soboba St. And Whittier Ave.	Hemet
Moraga	Mira Loma Dr. N/O Rancho Vista Rd.	Temecula
Murrieta 2	Fig St. and Adams St.	Murrietta
Nelson	Lyon Ave. & Esplanada Ave.	Hemet
Skylark	Corydon St. and Cereal St.	Lake Elsinore
Stetson	26750 Sanderson Ave.	Hemet
Sun City	Newport Rd. and Laguna Vista Dr.	Sun City
Tanker	Cactus Ave. and Riverside Dr.	Moreno Valley
Triton	32000 Block of Nicolas Rd.	Temecula

III. Field Inspections – Violations List

My staff observed the following violations during the field inspection:

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:

Auld Substation

1. The No. 1 Bank 115/12kV South Unit Transformer had a malfunctioning hot spot indicator.

Triton Substation

2. The Hammerhead 12kV Circuit Breaker had a damaged "Open" switch.
3. The No. 1 Bank 115/12kV Transformer had a malfunctioning hot spot indicator.

Nelson Substation

4. A liquid temperature gauge was disconnected from the No. 3 Bank 115/33kV Transformer.
5. Several circuit breakers had damaged viewing windows through which the gas pressure could not be read. These included the following 115kV circuit breakers: Valley, No. 2 Bank, No. 3 Bank, Mayberry, Stetson, and No. 4 Bank.
6. The substation's bird repellant system was not plugged in.

Stetson Substation

7. The substation's bird repellant system was missing its power adapter.

Skylark Substation

8. The substation's bird repellant system was missing its power adapter.
9. The Valley-Newcomb 115kV Circuit Breaker had an unreadable air pressure gauge due to its darkened window.

Fogarty Substation

10. A loop of grounding wire was exposed above the gravel on the ground.
11. The No. 2 Bank 115/12kV Transformer had a malfunctioning hot spot indicator.
12. The No. 5 Caps 115kV Circuit Breaker had a foggy viewing window.

Bunker Substation

13. The No. 1 and No. 2 Bank 115kV Circuit Breakers had viewing windows which were too opaque to see through.

Maxwell Substation

14. The following 12kV circuit breakers had damaged operations counters: No. 1 Bank, No. 2 Bank, and Bus Tie.
15. The No. 2 Bank 115kV Circuit Breaker toolbox had missing and damaged lock eyelets.