

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



January 5, 2023

SA2022-955

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 El Dorado 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 the Californian portion of Southern California Edison's (SCE) El Dorado Switching Center from September 26, 2022 to September 30, 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 February 6, 2023, 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,

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: 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
Baker	Highway 127 and Interstate 15	Baker
Barstow	Sixth Street and Hutchinson	Barstow
Cady	Newberry Road and Fairview Road	Newberry
Dunn Siding	South of Afton Road	Yermo
East Barstow	North of State Street	Barstow
Gale	National Trails Highway near Daggett	Daggett
Harvard	Highway 91 east of Yermo	Harvard
Hinkley	Community Boulevard and Somerset Avenue	Hinkley
Minneola	East of Coolwater Generation Station	Daggett
Ordway	South of Lenwood	Lenwood
SEGS 2	Solar One Road and Santa Fe Street	Daggett
West Barstow	Main Street and H Street	Barstow
Yermo	Highway 91 and Dividing Line Road	Yermo

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:

Barstow Substation

1. The 12 kV rack was missing a ground wire. It appeared to have been cut and stolen.

Segs 2 Substation

2. A relay cabinet cooling unit was not plugged in, and its power cord was damaged.

Cady Substation

3. The No. 1 Bank 33/12 kV B-phase Transformer was leaking oil.

Dunn Siding Substation

4. The No. 1 Bank 115/12 kV B and C-phase transformers were both leaking oil from their radiators.