

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



February 5, 2025

SA2024-1209

Sandra Aguilar
Team Lead, Substation & Transmission Compliance
San Diego Gas and Electric Company
8326 Century Park Court
San Diego, CA 92123

SUBJECT: Substation Audit of San Diego Gas and Electric's Metro District

Ms. Aguilar:

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 San Diego Gas and Electric's (SDG&E) Metro District from October 14, 2024 to October 18, 2024. The audit included a review of SDG&E's records and field inspections of SDG&E'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 March 5, 2025, by electronic or hard copy, of all corrective measures taken by SDG&E 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 James Miller at (213) 660-8898 or James.Miller@cpuc.ca.gov.

Sincerely,

A handwritten signature in blue ink that reads "Fadi Daye". The signature is fluid and cursive, with the first name "Fadi" and last name "Daye" clearly distinguishable.

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
Majed Ibrahim, Senior Utilities Engineer (Supervisor), 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:

- Inspection Records
- Substation Operation and Maintenance Procedure
- Substation Construction and Maintenance Procedure
- Fire Extinguisher Maintenance and Inspection Procedure
- Substation Construction and Maintenance Request Process
- Staff Training Records
- Substation Inspection Records
- Substation Equipment Testing Records
- Electrical Testing Records
- Oil Test Results
- Open and Closed Work Orders
- Infrared Testing Records

II. Field Inspections

My staff inspected the following substations during the field portion of the audit:

No.	Substation Name
1	Bay Boulevard
2	McGomerey
3	Imperial Beach
4	Otay Mesa
5	Border
6	San Ysidro
7	Otay
8	Telegraph Canyon
9	Hilltop
10	Miguel
11	Proctor Valley
12	Sunnyside
13	Salt Creek
14	Sweetwater
15	National City
16	Naval Station
17	Sewage Pump Station No. 1
18	Division
19	Silvergate
20	Sampson
21	Coronado
22	Grant Hill
23	Wabash

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:

Bay Boulevard Substation

1. The nitrogen blanket pressure indicators on the North and South Bus 69 kV SL&P Transformers displayed readings of less than 0 PSIG.
2. One capacitor on the west side of the substation's capacitor bank was leaking.

San Ysidro Substation

3. The Bank 31 and Bank 32 Transformers were both leaking oil.

Otay Substation

4. The Bank 32 Transformer was leaking oil.

Telegraph Canyon Substation

5. The Bank 40 and Bank 41 Transformers were both leaking oil.
6. The sulfur hexafluoride pressure gauge on the TL 24 138 kV Circuit Breaker was faulty or installed incorrectly.

Miguel Substation

7. The Bank 60 Transformer was leaking oil.

Sweetwater Substation

8. The sight glass on the Bank 31 69 kV Circuit Breaker was broken.

Coronado Substation

9. The Bank 31 Transformer was leaking oil.

Grant Hill Substation

10. The Bank 42 Transformer was leaking oil.