

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



October 31, 2023

SA2023-1083

Jennifer Kaminsky
Manager – Electric Assets & Compliance
San Diego Gas & Electric
8326 Century Park Court
San Diego, CA 92123

SUBJECT: Substation Audit of SDG&E Beach Cities District

Ms. Kaminsky:

On behalf of the Electric Safety and Reliability Branch of the California Public Utilities Commission (CPUC), Mily Vaidya and Jose Lastra of my staff conducted a substation audit of San Diego Gas & Electric's (SDG&E) Beach Cities District from August 7, 2023 to August 11, 2023. The audit included a review of SDG&E's records and field inspections of SDG&E'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 December 1, 2023, by electronic or hard copy, of all corrective measures taken by SDG&E to remedy and prevent such violations.

If you have any questions concerning this audit, you can contact Mily Vaidya at (213) 999-8528 or Mily.Vaidya@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: Leslie Palmer, Director, Safety and Enforcement Division, CPUC
Nika Kjensli, Program Manager, ESRB, SED, CPUC
Derek Fong, Senior Utilities Engineer, ESRB, SED, CPUC
Mily Vaidya, Utilities Engineer, ESRB, SED, CPUC
Jose Lastra, Utilities Engineer, ESRB, SED, CPUC

AUDIT FINDINGS

I. Records Review

During the audit, my staff reviewed the following records:

- SDG&E GO 174 Substation Inspection Process
- SDG&E GO 174 Substation Inspection Program
- SDG&E SOP Protection System Maintenance Program
- Substation Operators Training Records
- Summary of Substation Inspections
- Inspection Checklists and One-Line Diagrams for ten substations
- Recent open and completed work orders
- Summary of results of Infrared Testing in 2023
- Oil sample testing results
- Infrared inspection records

II. Field Inspections

My staff inspected the following substation facilities during the field inspection:

No.	Substation ID	Location
1	Scripps	0 Scripps Lake Dr, San Diego, CA
2	Mesa Rim	7020 Flanders Dr, San Diego, CA
3	Torrey Pines	10675 John Jay Hopkins Dr, San Diego, CA
4	Rose Canyon	Frontage Rd W/of I-5 S/of Gilman Dr, San Diego, CA
5	Pacific Beach	1606 Hornblend St, San Diego, CA
6	Point Loma	3980 Wabaska Dr, San Diego, CA
7	Vine	3550 Vine St, San Diego, CA
8	Old Town	5515 Riley St, San Diego, CA
9	Kyocera	8775 Balboa Ave, San Diego, CA
10	Mesa Heights	7474 Ronson Rd, San Diego, CA
11	Kearny West	5459 Complex St, San Diego, CA
12	Clairemont	Chateau Dr and Derrick Dr
13	Eastgate	3/10 MI N/O Eastgate Mall
14	Genesee	9545 Genesee Ave, San Diego, CA
15	Friars	7550 Mission Valley Rd, San Diego, CA
16	Miramar	8850 Miramar Rd, San Diego, CA
17	Mira Sorrento	5355 Mira Sorrento Pl, San Diego, 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:

Scripps Substation

- Bank 30 had one fan that was not working.

Torrey Pines

- Bank 32 had 3 fans that were not working.

Rose Canyon

- The viewing window on the 69 kV TL 638 circuit breaker had lost its transparency.

Pacific Beach

- The radiator on Bank 30 Transformer was leaking oil.

Point Loma

- The radiator on Bank 31 Transformer was leaking oil.

Old Town

- 230 kV 1 T circuit breaker danger signage was damaged.
- 230 kV 2 T circuit breaker danger signage was damaged.
- 230 kV 2 S circuit breaker danger signage was damaged.
- 230 kV 1 S circuit breaker danger signage was damaged.
- 230 kV 2 N circuit breaker danger signage was damaged.
- 230 kV 1 N circuit breaker danger signage was damaged.

Mesa Heights

- 69 kV Bank 33 circuit breaker danger signage was damaged.
- 69 kV Bank 32 circuit breaker danger signage was damaged.
- The viewing window on the 69 kV Bank 32 circuit breaker had lost its transparency.

- 69 kV Bus Tie circuit breaker danger signage was damaged.

Kearny West

- The radiator on the Bank 34 Transformer was leaking oil.
- Need to remove debris from the top of Bank 32.

Clairemont

- 69 kV TL 600 circuit breaker danger signage was damaged.
- Bank 31 had 2 fans that were not working.

Eastgate

- The viewing window on Bank 30 nitrogen cabinet had lost its transparency.

Miramar

- The viewing window on Bank 30 nitrogen cutout switch had lost its transparency.
- Bank 30 had 3 fans that were not working.

Mira Sorrento

- Bank 32 had 3 fans that were not working.