

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



August 1, 2022

SA2022-952

Sheri L. Gates, P.E.
Substation Construction & Maintenance Manager
San Diego Gas & Electric
5488 Overland Ave. SD1179
San Diego, CA 92123

SUBJECT: Substation Audit of SDG&E's Orange County District

Ms. Gates:

On behalf of the Electric Safety and Reliability Branch (ESRB) of the California Public Utilities Commission (CPUC), James Miller and Stacey Ocampo of my staff conducted a substation audit of San Diego Gas & Electric (SDG&E) Orange County District from June 13, 2022 to June 17, 2022. 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 September 1, 2022, by electronic or hard copy, of all corrective measures taken by SDG&E 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	Address	City
San Clemente	N. El Camino Real N/O W. Avenida Palizada	San Clemente
South San Clemente	S. El Camino Real & W. Avenida San Antonio	San Clemente
San Mateo	Calle Bahia & Countyline	San Clemente
Pico	1260 Puerto Del Sol	San Clemente
Talega	3300 Avenida Pico	San Clemente
Shorecliffs	2629 Via Cascadita	San Clemente
Laguna Niguel	32234 Bear Brand Rd	Laguna Niguel
Trabuco	27532 Camino Capistrano	Laguna Niguel
Margarita	East side of Antonio Parkway	Ladera Ranch
Rancho Mission Viejo	30201 Ortega Highway	San Juan Capistrano
San Juan Capistrano	Driveway N. of Calle Bonita	San Juan Capistrano

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:

San Clemente Substation

1. Regulator SC2 had a malfunctioning oil temperature gauge.

South San Clemente Substation

2. Transformer 980389 was leaking oil.

Talega Substation

3. Bank 60 138 kV Oil Circuit Breaker C-phase unit was leaking oil from its drain valve.
4. Bank 60 Transformer was leaking oil from the load tap changer (LTC) main drain plug.
5. Bank 61 Transformer was leaking oil from the main drain valve.

Laguna Niguel Substation

6. Bank 41 Transformer was leaking oil from the conduit to its “condition-based maintenance” box and from the conduit to its high-side current transformers.

Trabuco Substation

7. Bank 43 Transformer was leaking oil from the conduit to its high-side current transformers.

Margarita Substation

8. Bank 42 Transformer was leaking oil from the conduit to its high-side current transformers.