

PUBLIC UTILITIES COMMISSION

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January 28, 2026

SA2026-1379

Jennifer Kaminsky
Manager – Electric Assets & Compliance
San Diego Gas and Electric (SDG&E)
8315 Century Park Court, Suite CP22B
San Diego, CA 92123

SUBJECT: Substation Audit of SDG&E Northeast District

Ms. Kaminsky:

On behalf of the Electric Safety and Reliability Branch of the California Public Utilities Commission (CPUC), SM Arafat Kamal of my staff conducted a substation audit of San Diego Gas & Electric (SDG&E) Northeast District from January 12, 2026 to January 16, 2026. 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 March 2, 2026, 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 SM Arafat Kamal at (213) 902-0325 or SMArafat.Kamal@cpuc.ca.gov.

Sincerely,

A handwritten signature in black ink that reads "Majed Ibrahim".

Majed Ibrahim, P.E.
Senior Utilities Engineer (Supervisor)
Electric Safety and Reliability Branch
Safety and Enforcement Division
California Public Utilities Commission

Enclosures: Audit Findings

Cc: Leslie Palmer, Deputy Executive Director for Safety Enforcement, Safety Policy and Water, CPUC
Eric Wu, Program Manager, Electric Safety and Reliability Branch, CPUC
SM Arafat Kamal, Utilities Engineer, Electric Safety and Reliability Branch, CPUC

AUDIT FINDINGS

I. Records Review

During the audit, my staff reviewed the following records:

- SDG&E Substation Inspection Procedures
- SDG&E Substation Procedures
- Summary of SDG&E Northeast Substation Operators Training Records
- Summary of SDG&E Northeast Substation Inspections
- Pending and Completed Work Orders
- Summary of results of Infrared Testing
- Summary of results from Substation Oil Sample Tests

II. Field Inspections

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

No.	Substation Name	Address / Location
1	Pomerado	13735 Stowe Dr.
2	Poway	13700 E. Twin Peaks Rd.
3	Rancho Carmel	15337 Innovation Dr.
4	Chicarita	Azuaga St. ¼ mi N of Rancho Penasquitos Blvd
5	Escondido	571 Enterprise St.
6	Palomar Energy	1000 South Citricado Parkway
7	Esco	700 W. 3 rd St.
8	Goal Line Metering	500 Block N Tulip St.
9	Felicita	S. Centre City Pkwy, 400' S/O Brotherton Rd
10	Ash	CNR of E Mission Ave & N Ash St.
11	San Marcos	1260 W. Discovery St.
12	North County Metering	1595 San Elijo Rd
13	Olivenhain	Via Cielito 1/3 mi E/O Via Ambiente
14	Artesian Ranch	16001 Camino Del Sur
15	Bernardo	10800 Rancho Bernardo Rd
16	Lake Hodges Metering	19320 Lake Drive
17	Warren Canyon	14200 E. Green Valley Truck Trail
18	Creelman	6011 Creelman Ln.
19	Romona	11 th St. ½ Block N of Main St.
20	Valley Center	14435 Vesper Blvd
21	Rincon	Valley Center Rd 200' S/Of Hwy 76 on Access Rd
22	Pala	On N Side of Hwy 76, 4 mi E/Of I-15
23	Lilac	Gabler Dr. ¼ mi S/Of Old Castle Rd
24	Monserate	1116 Via Encinos Dr
25	Avocado	Behind 429 Industrial Way

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:

Pomerado

- The BANK 33 transformer had cracked glass cover on the liquid temperature gauge.
- The BANK 32 transformer had cracked and faded glass cover on both the liquid temperature gauge and winding temperature gauge.
- The “DANGER” signage on the 69 kV BANK 31 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BANK 32 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BANK 33 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BUS TIE gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 6913 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 6924 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 6915 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 6990 gas circuit breaker was damaged.

Poway

- The BANK 32 transformer had extra ground cables for reactor.

Rancho Carmel

- The BANK 33 transformer had cracked and faded glass cover on both the liquid temperature gauge and winding temperature gauge.
- The “DANGER” signage on the 69 kV BANK 32 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BANK 33 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BUS TIE gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 648 gas circuit breaker was damaged.

Chicarita

- The chemical hazard warning signage was damaged at the entrance of the room where batteries are stored.

- The BANK 40 transformer had faded glass cover on both the liquid temperature gauge and winding temperature gauge.
- The cable trough near BANK 40 had damaged concrete.
- The “DANGER” and “CAUTION” signs on the 12 kV CIR 917 vacuum circuit breaker were damaged.
- The “DANGER” signage on the 12 kV CIR 912 oil circuit breaker was damaged.
- The “DANGER” signage on the 12 kV CIR 911 oil circuit breaker was damaged.
- The “DANGER” signage on the 138 kV BANK 40 gas circuit breaker was damaged.
- The “DANGER” signage on the 138 kV BANK 41 gas circuit breaker was damaged.
- All the “DANGER” signs on the 138 kV TL 13820 oil circuit breaker were damaged.
- All the “DANGER” signs on the 138 kV TL 13811 oil circuit breaker were damaged.

Escondido

- The 69 kV GROUND BANK transformer had cracked glass cover on the liquid temperature gauge.
- The battery room was inaccessible because the lock was not working.
- The containment pit of BANK 30 was damaged.
- All the “HIGH VOLTAGE” signs on the switch gear were damaged.
- All the “HIGH VOLTAGE” signs on the 12 kV BANK A were damaged.
- Two “HIGH VOLTAGE” signs on the 12 kV BANK B were damaged.
- All the “HIGH VOLTAGE” signs on the 12 kV BANK C were damaged.
- The “DANGER” signage on the 69 kV GRD BANK 19S gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV GRD BANK 19N gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BANK 33 17S gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BANK 32 16N gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BANK 71 14N gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 688 gas circuit breaker was damaged.
- The “DANGER” signage on the 230 kV 2S gas circuit breaker was damaged.
- The “DANGER” signage on the 230 kV 2T gas circuit breaker was damaged.
- The “DANGER” signage on the 230 kV 2N gas circuit breaker was damaged.

Esco

- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK C were damaged.
- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK B were damaged.
- The “DANGER” signage on the 12 kV CIR 519 was damaged.

Palomar Energy

- The “DANGER” signage on the 230 kV 1T gas circuit breaker was damaged.
- The “DANGER” signage on the 230 kV 2E gas circuit breaker was damaged.
- The “DANGER” signage on the 230 kV 3E gas circuit breaker was damaged.
- The “DANGER” signage on the 230 kV 3T gas circuit breaker was damaged.
- The “DANGER” signage on the 230 kV 2T gas circuit breaker was damaged.
- The “DANGER” signage on the 230 kV 2W gas circuit breaker was damaged.
- The “DANGER” signage on the 230 kV 4W gas circuit breaker was damaged.

- The “DANGER” signage on the 230 kV 4T gas circuit breaker was damaged.
- The “DANGER” signage on the 230 kV 4E gas circuit breaker was damaged.

Felicita

- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK A were damaged.
- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK B were damaged.
- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK C were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV CIR 471 vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV CIR 472 vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV CIR 473 vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV BANK 30 vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV BANK 31 vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV CIR 790 vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV CIR 491 vacuum circuit breaker were damaged.
- The “DANGER” signage on the 69 kV TL 679 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 681 gas circuit breaker was damaged.

Ash

- One of the cooling fans on the BANK 31 transformer was not performing.
- The BANK 32 transformer had cracked glass cover on both the liquid temperature gauge and winding temperature gauge.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV CIR 454 vacuum circuit breaker were damaged.
- The “DANGER” signage on the 69 kV BANK 32 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BANK 30 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BUS TIE gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 6956 gas circuit breaker was damaged.

San Marcos

- The BANK 33 transformer was leaking oil from valve.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV BANK 30 vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV BANK 31 vacuum circuit breaker were damaged.
- The “DANGER” signage on the 69 kV BANK 32 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BANK 33 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 6945 gas circuit breaker was damaged.

Olivenhain

- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK A were damaged.
- The “DANGER” signage on the 69 kV TL 6930 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 6945 gas circuit breaker was damaged.

Artesian Ranch

- One of the “HIGH VOLTAGE” signage on the 12 kV CAP BANK B was damaged.
- All the “HIGH VOLTAGE” signs on the switch gear were damaged.
- The “DANGER” signage on the 230 kV 2E gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV 12N gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV 11N gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV 12T gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV 11S gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV 13S gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV 13T gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV 14T gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV 13N gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV 14N gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV 15T gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV 15S gas circuit breaker was damaged.

Bernardo

- The BANK 30 transformer was leaking oil from no load tap.
- All the “HIGH VOLTAGE” signs on the switch gear were damaged.
- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK A were damaged.
- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK B were damaged.
- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK C were damaged.
- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK D were damaged.
- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK E were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV CIR 290 vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV BANK 31 vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV CIR 543 vacuum circuit breaker were damaged.
- The “DANGER” signage on the 12 kV BANK 33 vacuum circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BANK 33 gas circuit breaker was damaged.

Warren Canyon

- One of the cooling fans on the BANK 20 transformer was not performing.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 12 kV CIR 327 vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the 4 kV CIR WC2 vacuum circuit breaker were damaged.

Creelman

- The “DANGER” signage on the 69 kV BANK 31 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BANK 32 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 6337 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 635 gas circuit breaker was damaged.

Valley Center

- All the “HIGH VOLTAGE” signs on the switch gear were damaged.
- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK A were damaged.
- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK B were damaged.
- The “DANGER” signage on the 69 kV TL 681 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 6988 gas circuit breaker was damaged.

Rincon

- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK A were damaged.
- The “DANGER” signage on the 69 kV TL 6926 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 682 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 683 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BUS TIE gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV CAP BANK 1 & 2 gas circuit breaker was damaged.

Pala

- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK A were damaged.
- All the “HIGH VOLTAGE” signs on the switch gear were damaged.
- The “DANGER” signage on the 69 kV BUS TIE gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TIE LINE 6923 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 698 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 6951 gas circuit breaker was damaged.

Lilac

- All the “HIGH VOLTAGE” sign on the 12 kV CAP BANK B were damaged.
- All the “HIGH VOLTAGE” sign on the 12 kV CAP BANK C were damaged.
- The “DANGER” signage on the 69 kV BUS TIE gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 683 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 688 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 6932 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV CAP BANK 1 & 2 gas circuit breaker was damaged.

Monserate

- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK A were damaged.
- All the “HIGH VOLTAGE” signs on the 12 kV CAP BANK B were damaged.
- All the “HIGH VOLTAGE” signs on the switch gear were damaged.
- The BANK 30 transformer had cracked and faded glass cover on both the liquid temperature gauge and winding temperature gauge.
- The “DANGER” signage on the 69 kV TL 691 gas circuit breaker was damaged.

- The “DANGER” signage on the 69 kV BUS TIE gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BANK 30 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV BANK 31 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 698 gas circuit breaker was damaged.
- The “DANGER” signage on the 69 kV TL 694 gas circuit breaker was damaged.

Avocado

- The BANK 31 transformer was leaking oil from LTC cabinet.