

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



March 5, 2026

SA2026-1380

Varoojan Avedian
Assistant General Manager,
Pasadena Water and Power (PWP)
1055 East Colorado Blvd., Suite 350
Pasadena, CA 91106

SUBJECT: Substation Audit of Pasadena Water and Power

Mr. Avedian:

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 Pasadena Water and Power on February 23 - 27, 2026. The audit included a review of Pasadena Water and Power's records and field inspections of Pasadena Water and Power'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 April 6, 2026, by electronic or hard copy, of all corrective measures taken by Pasadena Water and Power 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 SM_Arafat.Kamal@cpuc.ca.gov.

Sincerely,

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

Majed Ibrahim, 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, 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:

- Pasadena Water and Power Substation Inspection Procedures
- Pasadena Water and Power Substation Procedures
- Summary of Pasadena Water and Power Substation Operators Training Records
- Summary of Pasadena Water and Power Substation Inspections
- Pending and Completed Workorders
- 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
1	Fair Oaks	1410 N Fair Oaks Ave
2	Villa	174 E Villa St
3	Brookside	1001 N Arroyo Blvd
4	Del Mar	95 Waverly Dr
5	Glenarm	45 E Glenarm Ave
6	Oak Knoll	525 S Oak Knoll Ave
7	Chester	44 S Michigan Ave
8	Santa Anita	160 N Altadena Dr
9	Eastern	100 Sierra Madre Villa Ave
10	Goodrich	3001 E Foothill Blvd
11	Hastings	3665 E Sierra Madre Blvd
12	Wilson	1004 N Wilson Ave

III. Field Inspection - Violations List

My staff observed the following violations during the field inspection 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:

Villa

- The chemical hazard warning signage at the entrance of the main gate of the substation was damaged.
- The Unit 2A transformer had faded glass cover on the oil thermometer temperature gauge.
- One of the cooling fans on the Unit 2A transformer was not performing.

Brookside

- The chemical hazard warning signage at the entrance of the main gate of the substation was damaged.
- The “HIGH VOLTAGE” signage at the entrance of the main gate of the substation was damaged.

Del Mar

- The chemical hazard warning signage at the entrance of the main gate of the substation was damaged.
- The “HARD HAT AREA” signage at the entrance of the main gate of the substation was damaged.

Glenarm

- All the “HIGH VOLTAGE” signs on the switch gear Unit 3 were damaged.
- All the “HIGH VOLTAGE” signs on the switch gear Unit 4 were damaged.
- The Unit 3A transformer had faded glass cover on the oil thermometer temperature gauge.
- The Unit 3A transformer had faded glass cover on the winding thermometer temperature gauge.
- The Unit 3B transformer had faded glass cover on the oil thermometer temperature gauge.
- All the “HIGH VOLTAGE” signs on the dispatch emergency feed were damaged.

Oak Knoll

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

Chester

- The chemical hazard warning signage at the entrance of the main gate of the substation was damaged.
- All the “HIGH VOLTAGE” signs on the switch gear Unit 4 were damaged.

Santa Anita

- The chemical hazard warning signage was damaged at the entrance of the room where batteries are stored.
- The “HIGH VOLTAGE” signage at the entrance of the main gate of the substation was damaged.
- The “DANGER” signage on the 34-10 North gas circuit breaker was damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the BUS TIE 17 kV vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the BANK 4 17 kV vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the STANDBY 17 kV vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the MAPLE 17 kV vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the VINEDO 17 kV vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the COLORADO 17 kV vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the MADRE 17 kV vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the HALSTEAD 17 kV vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the HILL 17 kV vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the ALTADENA 17 kV vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the WALNUT 17 kV vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the CAL TECH 2 17 kV vacuum circuit breaker were damaged.
- The “DANGER,” “WARNING,” and “CAUTION” signs on the BANK 5 17 kV vacuum circuit breaker were damaged.

Eastern

- All the “HIGH VOLTAGE” signs on the switch gear Unit 1 were damaged.

Goodrich

- The chemical hazard warning signage at the entrance of the main gate of the substation was damaged.
- The “DANGER” signage on the CAP BANK 7 was damaged.