



PASADENA WATER AND POWER DEPARTMENT
POWER DISTRIBUTION UNIT

March 26, 2026

SA2026-1380

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SUBJECT: Substation Audit of Pasadena Water and Power

Mr. Ibrahim:

On February 23-27, 2026 Mr. Kamal from the California Public Utilities Commission (CPUC) conducted an audit of Pasadena Water and Power substations. The audit included a review of Pasadena Water and Power's records and substation field inspections.

During the audit, Mr. Kamal identified violations of one or more General Orders (GOs). A copy of the audit findings itemizing the violations and Pasadena Water and Power corrective actions to prevent such violations are enclosed.

If you have any questions concerning the response, please contact me
At (626) 744-7852 or smoody@cityofpasadena.net.

Sincerely,

Sharon Moody
Electrical Test and Construction Manager
Power Delivery Field Operations
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AUDIT FINDINGS

1. RECORDS REVIEW

During the audit CPUC 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 results of Infrared Testing
- Summary of results from Substation Oil Sample Tests

2. FIELD INSPECTIONS

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

No.	Substation Name	Address
1	Brookside	1001 N Arroyo Blvd.
2	Chester	44 S Michigan Ave.
3	Delmar	95 Waverly Dr.
4	Eastern	100 Sierra Madre Villa Ave.
5	Fair Oaks	1410 N Fair Oaks
6	Glenarm	45 E Glenarm St.
7	Goodrich	3001 E Foothill Blvd.
8	Hastings	3665 E Sierra Madre Blvd.
9	Oak Knoll	525 S Oak Knoll Ave.
10	Santa Anita	160 N Alta Dena Dr.
11	Villa	174 E Villa St.
12	Wilson	1004 N Wilson Ave.

3. FIELD INSPECTIONS -VIOLATIONS LIST AND CORRECTIVE ACTIONS

CPUC staff observed the following violations during field inspections of the audit. Here are listed violations and Pasadena Water and Power corrective actions to prevent such violations.

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.

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.

Pasadena Water and Power Response: Chemical hazard warning signage at the entrance of main gate was replaced with new chemical hazard warning signage.

Pasadena Water and Power Response: "HIGH VOLTAGE" signage at entrance of main gate was replaced new "HIGH VOLTAGE" signage.

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.

Pasadena Water and Power Response: Chemical hazard warning signage at the entrance of main gate was replaced with new chemical hazard warning signage.

Pasadena Water and Power Response: All "HIGH VOLTAGE" signs on Chester unit 4 switchgear was replaced with new "HIGH VOLTAGE" signs.

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.

Pasadena Water and Power Response: Chemical hazard warning signage at the entrance of main gate was replaced with new chemical hazard warning signage.

Pasadena Water and Power Response: "HARD HAT AREA" signage at the entrance of main gate was replaced with new "HARD HAT AREA" signage.

Eastern

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

Pasadena Water and Power Response: All “HIGH VOLTAGE” signs on Eastern unit 1 switchgear was replaced with new “HIGH VOLTAGE” signs.

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.

Pasadena Water and Power Response: All “HIGH VOLTAGE” signs on Glenarm unit 3 switchgear was replaced with new “HIGH VOLTAGE” signs.

Pasadena Water and Power Response: All “HIGH VOLTAGE” signs on Glenarm unit 4 switchgear was replaced with new “HIGH VOLTAGE” signs.

Pasadena Water and Power Response: Unit 3A transformer faded glass cover on the oil thermometer temperature gauge was replaced with new glass cover and gaskets.

Pasadena Water and Power Response: Unit 3A transformer faded glass cover on the winding thermometer temperature gauge was replaced with new glass cover and gaskets.

Pasadena Water and Power Response: Unit 3B transformer faded glass cover on the oil thermometer temperature gauge was replaced with new glass cover and gaskets.

Pasadena Water and Power Response: All the “HIGH VOLTAGE” signs on the dispatch emergency feed were replaced with new “HIGH VOLTAGE” signage.

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.

Pasadena Water and Power Response: Chemical hazard warning signage at the entrance of main gate was replaced with new chemical hazard warning signage.

Pasadena Water and Power Response: The “DANGER” signage on the CAP BANK 7 was Replaced with new “DANGER” signage.

Oak Knoll

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

Pasadena Water and Power Response: Chemical hazard warning signage at the entrance of battery Room was replaced with new chemical hazard warning signage.

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.

Pasadena Water and Power Response: Chemical hazard warning signage at the entrance of battery room was replaced with new chemical hazard warning signage.

Pasadena Water and Power Response: "HIGH VOLTAGE" signage at the entrance of main gate was replaced new "HIGH VOLTAGE" signage.

Pasadena Water and Power Response:

*The “DANGER” signage on the 34-10 North (SF6) gas circuit breaker was replaced with new “DANGER” signage.

Pasadena Water and Power Response:

The “DANGER,” “WARNING,” and “CAUTION” signs on the BUS TIE 17 kV vacuum circuit breaker was replaced with new “DANGER,” “WARNING,” and “CAUTION” signage.

Pasadena Water and Power Response:

The “DANGER,” “WARNING,” and “CAUTION” signs on the BANK 4 17 kV vacuum circuit breaker was replaced with new “DANGER,” “WARNING,” and “CAUTION” signage.

Pasadena Water and Power Response:

The “DANGER,” “WARNING,” and “CAUTION” signs on the STANDBY 17 kV vacuum circuit breaker was replaced with new “DANGER,” “WARNING,” and “CAUTION” signage.

Pasadena Water and Power Response:

The “DANGER,” “WARNING,” and “CAUTION” signs on the MAPLE 17 kV vacuum circuit breaker was replaced with new “DANGER,” “WARNING,” and “CAUTION” signage.

Pasadena Water and Power Response:

The “DANGER,” “WARNING,” and “CAUTION” signs on the VINEDO 17 kV vacuum circuit breaker was replaced with new “DANGER,” “WARNING,” and “CAUTION” signage.

Pasadena Water and Power Response:

The “DANGER,” “WARNING,” and “CAUTION” signs on the COLORADO 17 kV vacuum circuit breaker was replaced with new “DANGER,” “WARNING,” and “CAUTION” signage.

Pasadena Water and Power Response:

The “DANGER,” “WARNING,” and “CAUTION” signs on the MADRE 17 kV vacuum circuit breaker was replaced with new “DANGER,” “WARNING,” and “CAUTION” signage.

Pasadena Water and Power Response:

The “DANGER,” “WARNING,” and “CAUTION” signs on the HALSTEAD 17 kV vacuum circuit breaker was replaced with new “DANGER,” “WARNING,” and “CAUTION” signage.

Pasadena Water and Power Response:

The “DANGER,” “WARNING,” and “CAUTION” signs on the HILL 17 kV vacuum circuit breaker was replaced with new “DANGER,” “WARNING,” and “CAUTION” signage.

Pasadena Water and Power Response:

The “DANGER,” “WARNING,” and “CAUTION” signs on the ALTADENA 17 kV vacuum circuit breaker was replaced with new “DANGER,” “WARNING,” and “CAUTION” signage.

Pasadena Water and Power Response:

The “DANGER,” “WARNING,” and “CAUTION” signs on the WALNUT 17 kV vacuum circuit breaker was replaced with new “DANGER,” “WARNING,” and “CAUTION” signage.

Pasadena Water and Power Response:

The “DANGER,” “WARNING,” and “CAUTION” signs on the CALTECH 17 kV vacuum circuit breaker was replaced with new “DANGER,” “WARNING,” and “CAUTION” signage.

Pasadena Water and Power Response:

The “DANGER,” “WARNING,” and “CAUTION” signs on the BANK5 17 kV vacuum circuit breaker was replaced with new “DANGER,” “WARNING,” and “CAUTION” signage.

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.

Pasadena Water and Power Response:

Chemical hazard warning signage at the entrance of main gate was replaced with new chemical hazard warning signage.

Pasadena Water and Power Response: Unit 2A transformer faded glass cover on the oil thermometer temperature gauge was replaced with new glass cover and gaskets.

Pasadena Water and Power Response: Cooling fan on Unit 2A was serviced and is now Working.