

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



January 13, 2016

EA2015-016

Mr. Adeel Babar
Supervisor – Regulatory Compliance
Pacific Gas and Electric Company
3401 Crow Canyon Road, #221E
San Ramon, CA 94583

SUBJECT: Audit of PG&E's Central Coast Division

Dear Mr. Babar:

On behalf of the Electric Safety and Reliability Branch (ESRB) of the California Public Utilities Commission, Wilson Tsai and Ivan Garcia of my staff conducted an electric audit of PG&E's Central Coast Division from November 2 to November 6, 2015. The audit included a review of PG&E's records and field inspections of PG&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 February 15, 2016, by electronic or hard copy, of all corrective measures taken by PG&E to remedy and prevent such violations.

If you have any questions concerning this audit please contact Wilson Tsai at (415) 703-1359 or wilson.tsai@cpuc.ca.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Fadi Daye".

Fadi Daye, P.E.
Program and Project Supervisor
Electric Safety and Reliability Branch
Safety and Enforcement Division
California Public Utilities Commission

Enclosure: Audit Findings

Cc: Elizaveta Malashenko, Director, Safety and Enforcement Division, CPUC
Charlotte TerKeurst, Program Manager, Electric Safety and Reliability Branch, CPUC

AUDIT FINDINGS

I. Records Review

My staff reviewed the following records during the audit:

- a. 2015 GO 95 detailed inspection records for Maps G0908 & F0918 located in Salinas.
- b. 2015 GO 128 detailed inspection records for Maps I0212 & I0214 located in Pacific Grove.
- c. GO165 inspection records for Central Coast division from Oct. 2010 to Sept. 2015.
- d. Completed work orders for overhead facilities for Maps I0214, G0813, G0923B, G0924, and F0923 in Pacific Grove and Salinas.
- e. Cancelled work orders for overhead facilities for Maps I0214, G0813, and G0907 in Pacific Grove and Salinas.
- f. Pole loading calculations for poles in Salinas.
- g. New Construction records for work order 109910494 in Salinas.

II. Records Review - Violations

GO 165, Section III-B, Standards for Inspection, states in part:

Each utility subject to this General Order shall conduct inspections of its distribution facilities, as necessary, to ensure reliable, high quality, and safe operation, but in no case may the period between inspections (measured in years) exceed the time specified in Table 1.

The following PG&E facilities were not inspected as required by GO 165:

- 3 overhead maps with a total of 49 facilities missed a patrol and/or an inspection cycle.
- 42 underground maps with a total of 107 facilities missed a patrol and/or an inspection cycle.

GO 165, Section III-C, Record Keeping, states in part:

For all inspections records shall specify the circuit, area, facility or equipment inspected, the inspector, the date of the inspection, and any problems (or items requiring corrective action) identified during each inspection, as well as the scheduled date of corrective action.

GO 95, Rule 31.1, Design, Construction, and Maintenance, states in part:

Electrical supply and communication systems shall be designed, constructed, and maintained for their intended use, regard being given to the conditions under which they are to be operated, to enable the furnishing of safe, proper, and adequate service.

GO 128, Rule 17.1, Design, Construction, and Maintenance, states in part:

Electrical supply and communication systems shall be designed, constructed, and maintained for their intended use, regard being given to the conditions under which they are to be operated, to enable the furnishing of safe, proper, and adequate service.

PG&E's records indicated that from October 2010 to September 30, 2015, a total of 3,527 work orders were completed past their scheduled date of corrective action per PG&E's Electric Notification Prioritization Standards. In addition, 1,597 work orders were cancelled past their scheduled date of corrective action. Late work orders included overhead and underground facilities.

III. Field Inspection

My staff inspected the following facilities:

Structure Number	Type of Structure	Location	Map Number
N/A	Pole	Salinas	G0908
#1176	Pole	Salinas	G0908
N/A	Pole	Salinas	G0908
N/A	Pole	Salinas	G0908
Streetlight #147	Pole	Salinas	G0908
Streetlight #146	Pole	Salinas	G0908
N/A	Pole	Salinas	G0908
N/A	Pole	Salinas	G0908
N/A	Pole	Salinas	G0908
N/A	Pole	Salinas	G0908
N/A	Pole	Salinas	G0908
N/A	Pole	Salinas	G0908
N/A	Pole	Salinas	G0908
N/A	Pole	Salinas	G0908
N/A	Pole	Salinas	G0908
T-85979	Underground Transformer	Pacific Grove	I0212
SW-68006	Underground 3-Way Switch	Pacific Grove	I0212
SW-91640	Underground 3-Way Switch	Pacific Grove	I0212
SW-42618	Underground 3-Way Switch	Pacific Grove	I0212
SW-99040	Underground Interrupter	Pacific Grove	I0212
J-9305	Underground Junction Box	Pacific Grove	I0212
J-9311	Underground Junction Box	Pacific Grove	I0212
SW-38290	Underground 3-Way Switch	Pacific Grove	I0212
SW-91032	Underground 3-Way Switch	Pacific Grove	I0212
SW-54060	Underground 3-Way Switch	Pacific Grove	I0212
SW-2714	Underground 2-Way Switch	Pacific Grove	I0214
SW-2724	Underground 2-Way Switch	Pacific Grove	I0214
T-1746	Underground Transformer	Pacific Grove	I0214
T-1745	Underground Transformer	Pacific Grove	I0214
J-420	Underground Junction Box	Pacific Grove	I0214
T-1744	Underground Duplex Transformer	Pacific Grove	I0214
T-1704	Pad-mounted Transformer	Pacific Grove	I0214
Fuse #4731	Pole	Salinas	F0918
110441384	Pole	Salinas	F0918
Streetlight #4637	Pole	Salinas	F0918
N/A	Pole	Salinas	F0918
#110441385	Pole	Salinas	F0918
#110441386	Pole	Salinas	F0918
Fuse #4503	Pole	Salinas	F0918
N/A	Pole	Salinas	F0918

N/A	Pole	Salinas	F0918
Structure Number	Type of Structure	Location	Map Number
N/A	Pole	Salinas	F0918
Cutout #59021	Pole	Salinas	F0918
N/A	Pole	Salinas	F0918

IV. Field Inspection – Undocumented Violations List

We observed the following violations during our field inspection. None of these violations were documented and/or addressed by PG&E during its last inspection:

GO 95, Rule 51.6-A, High Voltage Marking, states in part:

Poles which support line conductors of more than 750 volts shall be marked with high voltage signs.... Such signs shall be of weather and corrosion-resisting material, solid or with letters cut out therefrom and clearly legible.

The pole at the intersection of Navajo Drive and First St. in Salinas did not have a “High Voltage” sign.

GO 95, Rule 31.1, Design, Construction, and Maintenance, states in part:

Electrical supply and communication systems shall be designed, constructed, and maintained for their intended use, regard being given to the conditions under which they are to be operated, to enable the furnishing of safe, proper, and adequate service.

Streetlight #4637, located at the intersection of North Main St. and Russell Rd. in Salinas did not have a “lip washer and nut” where the insulator connects to the outer crossarm.

GO 95, Rule 54.8-B, Clearances Above Ground, Buildings, Etc., states in part:

Above Public Thoroughfares: Service drop conductors shall have a vertical clearance of not less than 18 feet above public thoroughfares, except that this clearance may grade from 18 feet at a position not more than 12 feet horizontally from the curb line to a clearance of not less than 16 feet at the curb line, provided the clearance at the centerline of any public thoroughfare shall in no case be less than 18 feet.

Residential Premises: Over private driveways or lanes or other private property areas accessible to vehicles on premise used for residential purposes only, service drops shall have a vertical clearance not less than 12 feet.

- The service drop at 257 Cherry Dr. had a vertical clearance of 9 feet 10 inches at the lowest point above the driveway. It had a vertical clearance of 12 feet 3 inches at the lowest point above the street curb.
- The service drop at 269 Cherry Dr. had a vertical clearance of 12 feet at the lowest point above the street curb.

GO 95, Rule 38, Table 2, 19-C, requires a minimum radial clearance of 3 inches between communication conductors and guy wires supported on the same pole.

A guy wire installed on the pole at the corner of Peach and Cherry Dr. in Salinas was in contact with a communication conductor.

GO 95, Rule 56.2, requires guy wires to be maintained taut.

The pole at 689 Lobos St.in Pacific Grove had a loose down guy. PG&E repaired the down guy during the CPUC's field inspection.

V. Field Inspection – Documented Violations List

We observed the following violations during our field inspection. These violations were documented and/or addressed by PG&E during its last inspection:

GO 128, Rule 12.2, Maintenance, states in part:

Systems shall be maintained in such condition as to secure safety to workmen and the public in general. Systems and portions thereof constructed, reconstructed, or replaced on or after the effective date of these rules shall be kept in conformity with the requirement of these rules..

Pad-mounted transformer T-1704 in Pacific Grove had corrosion on the top part of the cabinet.

GO 95, Rule 31.1, Design, Construction, and Maintenance, states in part:

Electrical supply and communication systems shall be designed, constructed, and maintained for their intended use, regard being given to the conditions under which they are to be operated, to enable the furnishing of safe, proper, and adequate service.

- The pole across from Cutout #59021 in Salinas had a decayed primary crossarm.
- Pole #1176 in Salinas was not drawn on Map G0908.
- The pole at 2381 N. Main St. in Salinas had vegetation in contact with the down guy above the down guy insulator.