

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
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September 21, 2016

TA2016-05

Adeel Babar
Supervisor – Regulatory Compliance
Pacific Gas and Electric Company (PG&E)
3401 Crow Canyon Road, #221E
San Ramon, CA 94583

SUBJECT: Transmission Audit of PG&E Midway Division

Mr. Babar:

On behalf of the Electric Safety and Reliability Branch (ESRB) of the California Public Utilities Commission (CPUC), Ivan Garcia and Wilson Tsai of my staff conducted a Transmission Audit of PG&E Midway Division on August 8, 2016 to August 12, 2016. The audit included a review of PG&E's records and field inspections of its transmission 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 October 21, 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 Ivan Garcia at (916) 928-5875 or ivan.garcia@cpuc.ca.gov.

Sincerely,

A handwritten signature in blue ink that reads "Fadi Daye".

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

Enclosures: CPUC Audit Findings

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

AUDIT FINDINGS

I. Records Review

During the audit, my staff reviewed the following records:

- PG&E's Electric Transmission Preventative Maintenance Manual, TD-1001M, Revision 3
- Overhead patrol and detailed inspection records
- Completed and pending corrective action work orders (LC Notifications)
- Pole loading calculations
- Intrusive pole testing records
- Vegetation Management records

II. Records Review – Violations List

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.

For all particulars not specified in these rules, design, construction, and maintenance should be done in accordance with accepted good practice for the given local conditions known at the time by those responsible for the design, construction, or maintenance of communication or supply lines and equipment.

GO 165, Section IV, Transmission Facilities, states in part:

Each utility shall prepare and follow procedures for conducting inspections and maintenance activities for transmission lines.

PG&E's records indicated that from September 30, 2013 to June 30, 2016, 160 Electric Transmission Line Corrective (LC) work orders were completed late per PG&E Standard TD-1001M Electric Transmission Preventative Maintenance Manual.

III. Field Inspection

The following are the facilities we inspected during the field inspection:

Circuit	Structure Number	Approximate Location
115 kV Sierra Tap	0/2	Oilfields Rd., Bakersfield
115 kV Midway-Shafter	7/71	29613 7 th Standard Rd., Bakersfield
70 kV Taft-Elk Hills	7/126	Airport Rd., Taft
115 kV Midway-Taft	19/4A	A Street and Terrace Dr., Taft
70 kV Taft-Cuyama #1	000/001	A Street and Terrace Dr., Taft
70 kV Taft-Cuyama #2	000/005	A Street and Terrace Dr., Taft
70 kV Taft-Cuyama #2	000/006	A Street and Terrace Dr., Taft
70 kV Carneras-Taft	0/1	A Street and Terrace Dr., Taft
70 kV Maricopa-Copus	3/60	Cadet Rd. and Agnes Dr., Maricopa
70 kV Taft-Cuyama #2	015/128	Cuyama Highway 166 and Kirshenmann Rd., Cuyama
70 kV Taft-Cuyama #2	015/129	Cuyama Highway 166 and Kirshenmann Rd., Cuyama
70 kV Taft-Cuyama #2	015/130	Cuyama Highway 166 and Kirshenmann Rd., Cuyama
70 kV Taft-Cuyama #2	015/131	Cuyama Highway 166 and Kirshenmann Rd., Cuyama
70 kV Taft-Cuyama #2	015/132	Cuyama Highway 166 and Kirshenmann Rd., Cuyama
70 kV Taft-Cuyama #2	015/133	Cuyama Highway 166 and Kirshenmann Rd., Cuyama
115 kV Discovery Tap	000/013	China Grade Loop and Monte Cristo Rd., Oildale
70 kV 70117 Wasco-Famoso	008/150	Paso Robles Highway 46 and Smith Ave., Wasco
70 kV 70117 Wasco-Famoso	008/149	Paso Robles Highway 46 and Smith Ave., Wasco
70 kV 70117 Wasco-Famoso	008/148	Paso Robles Highway 46 and Smith Ave., Wasco
70 kV 70117 Wasco-Famoso	008/147	Paso Robles Highway 46 and Smith Ave., Wasco
70 kV 70117 Wasco-Famoso	008/146	Paso Robles Highway 46 and Smith Ave., Wasco
70 kV 70117 Wasco-Famoso	008/145	Paso Robles Highway 46 and Smith Ave., Wasco
70 kV 70117 Wasco-Famoso	008/144	Paso Robles Highway 46 and Smith Ave., Wasco
70 kV 70117 Wasco-Famoso	008/143	Paso Robles Highway 46 and Smith Ave., Wasco
70 kV 70117 Wasco-Famoso	008/142	Paso Robles Highway 46 and Smith Ave., Wasco
70 kV 70117 Wasco-Famoso	008/141	Paso Robles Highway 46 and Smith Ave., Wasco

70 kV 70116 Semitropic-Wasco	002/049	Paso Robles Highway 46 and Leonard Ave., Wasco
70 kV 70116 Semitropic-Wasco	002/048	Paso Robles Highway 46 and Leonard Ave., Wasco
70 kV 70116 Semitropic-Wasco	002/047	Paso Robles Highway 46 and Leonard Ave., Wasco
70005B 70 kV Chevron (Lost Hills) Tap	011/175	Paso Robles Highway 46 and Holloway Rd., Lost Hills
70005B 70 kV Chevron (Lost Hills) Tap	011/181	Paso Robles Highway 46 and Holloway Rd., Lost Hills
70005B 70 kV Chevron (Lost Hills) Tap	000/005	Twisselman Rd. and Holloway Rd., Lost Hills
500 kV Los Banos- Midway #2	119/491	Twisselman Rd. and Lost Hills Rd., Lost Hills
10140A 115 kV Vedder Tap	000/002B	Wesley Ln., Oildale

IV. Field Inspection – Undocumented Violations List

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

GO 95, Rule 54.6, Vertical and Lateral Conductors, Ground Wires, states in part:

Ground Wires of supply circuits must be protected by suitable covering and be in good repair throughout their length.

The ground wire at Taft-Cuyana #2, pole 000/006, was exposed at approximately 45 feet above ground.

V. Field Inspection – Documented Violations List

We observed the following violation during the field inspection. The violation were documented and/or addressed by PG&E during its last inspections:

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.

For all particulars not specified in these rules, design, construction, and maintenance should be done in accordance with accepted good practice for the given local conditions known at the time by those responsible for the design, construction, or maintenance of communication or supply line and equipment.

A down guy anchor was buried in the ground at Taft-Cuyana #2 circuit, pole 000/005 (LC Notification #11828493).