

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



June 2, 2017

Melvin Stark
Manager, Maintenance & Inspection
Southern California Edison Company
3 Innovation Way
Pomona, CA 91786

EA2017-797

Subject: Audit of Southern California Edison's Kernville District

Mr. Stark:

On behalf of the Electric Safety and Reliability Branch of the California Public Utilities Commission (CPUC), Eric Ujiiye and Richard Kyo of my staff conducted an electric audit of Southern California Edison's (SCE) Kernville District from April 17, 2017 to April 21, 2017. The audit included a review of SCE's records and field inspections of SCE'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 July 3, 2017, by electronic or hard copy, of all corrective measures taken by SCE to remedy and prevent such violations.

If you have any questions concerning this audit, you can contact Eric Ujiiye at (213) 620-2598 or eric.ujiiye@cpuc.ca.gov.

Sincerely,

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

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

Enclosures: Audit Findings

Cc: Elizaveta Malashenko, Director, Safety and Enforcement Division, CPUC
Lee Palmer, Deputy Director, Office of Utility Safety, CPUC
Charlotte TerKeurst, Program Manager, Electric Safety and Reliability Branch, CPUC
Eric Ujiiye, Utilities Engineer, ESRB, CPUC

AUDIT FINDINGS

I. Records Review

During the audit, my staff reviewed the following records:

- Overhead and underground detailed inspections records.
- Completed and pending corrective action work orders.
- Pole loading calculations.
- Safety hazard notifications.
- Intrusive test records
- SCE's documented inspection program.

II. Records Review – Violations List

My staff observed the following violations during the records review portion of the audit:

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

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 95, 31.2, Inspection of Lines, states in part:

Lines shall be inspected frequently and thoroughly for the purpose of ensuring that they are in good condition so as to conform with these rules. Lines temporarily out of service shall be inspected and maintained in such condition as not to create a hazard.

SCE completed work orders numbered 404087583, 405400684, and 407457702 past their scheduled due date of corrective action.

III. Field Inspections

My staff inspected the following facilities during the field inspection:

No.	Structure ID.	Type of Structure	Location
1	4091222E	Pole	Glennville
2	4663401E	Pole	Glennville
3	4663402E	Pole	Glennville
4	4663403E	Pole	Glennville
5	1368797E	Pole	Glennville
6	852795E	Pole	Glennville
7	4505317E	Pole	Glennville
8	4505318E	Pole	Glennville
9	4663414E	Pole	Glennville
10	4663415E	Pole	Glennville
11	4636729E	Pole	Posey
12	4636738E	Pole	Posey
13	4636728E	Pole	Posey
14	2275396	Pole	Posey
15	2269855	Pole	Posey
16	4236772E	Pole	Woody
17	4236777E	Pole	Woody
18	4236778E	Pole	Woody
19	4236779E	Pole	Woody
20	4236780E	Pole	Woody
21	4254496E	Pole	Woody
22	1827820E	Pole	Alta Sierra Slick Rock
23	1827807E	Pole	Alta Sierra Slick Rock
24	1827805E	Pole	Alta Sierra Slick Rock
25	4180491E	Pole	Alta Sierra Slick Rock
26	184975E	Pole	Southlake
27	184974E	Pole	Southlake
28	1342575E	Pole	Posey
29	1441905E	Pole	Posey
30	689949E	Pole	Alta Sierra Slick Rock
31	689927E	Pole	Glennville
32	5309107	BURD - Transformer	Kernville Robinson Cove
33	P5486898	Padmount - Transformer	Mount Mesa
34	5309209	BURD - Switch	Mount Mesa
35	5180119	BURD - Switch	Mount Mesa
36	5180170	BURD - Transformer	Mount Mesa
37	P5051066	Padmount - switch	Weldon
38	PM5051072	Padmount - switch	Weldon
39	P5486891	Padmount - Transformer	Weldon

IV. Field Inspection Violations List

My staff observed the following violations during the field inspection:

GO 95, Rule 51.6-A, Marking and Guarding, High Voltage Marking of Poles, states in part:

Poles which support line conductors of more than 750 volts shall be marked with high voltage signs. This marking shall consist of a single sign showing the words "HIGH VOLTAGE", or pair of signs showing the words "HIGH" and "VOLTAGE", not more than six (6) inches in height with letters not less than 3 inches in height. A pair of signs may be stacked to a height of no more than 12 inches. Such signs shall be of weather and corrosion-resisting material, solid or with letters cut out therefrom and clearly legible.

The high voltage signs on the following SCE poles were damaged:

- 4663403E – "VOLTAGE" was missing
- 4505318E – parts of the letters were missing
- 4636738E – parts of the letters were missing
- 2275396 – both the "HIGH" and "VOLTAGE" signs were peeling off
- 2269855 – "VOLTAGE" was missing the letters "AGE"
- 4236772E – "VOLTAGE" was missing the letters "VOL"

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 95, Rule 54.6-B, Ground Wires, states in part:

That portion of the ground wires attached on the face or back of wood crossarms or on the surface of wood poles and structures shall be covered by a suitable protective covering (see Rule 22.8).

The ground molding on SCE pole number 1368797E was damaged, with missing sections.

The ground molding on SCE pole number 4505318E was damaged.

GO 95, Rule 34, Foreign Attachments, states in part:

Nothing in these rules shall be construed as permitting the unauthorized attachment, to supply, street light or communication poles or structures, of antennas, signs, posters, banners, decorations, wires, lighting fixtures, guys, ropes and any other such equipment foreign to the purposes of overhead electric line construction.

Two advertising signs were mounted on SCE pole number 4636729E.

GO 95, Rule 56.2, Use, states in part:

Guys shall be attached to structures, as nearly as practicable, at the center of load. They shall be maintained taut and of such strength as to meet the safety factors of Rule 44.

The span guy wire on SCE poles numbered 1342575E and 4180673E was not taut.

The guy wire on SCE pole number 1441905E was loose and hanging between vegetation.