PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3298



April 28, 2017

EA2017-773

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

Subject: Audit of Southern California Edison's Blythe District

Mr. Stark:

On behalf of the Electric Safety and Reliability Branch of the California Public Utilities Commission (CPUC), Richard Kyo and Eric Ujiiye of my staff conducted an electric audit of Southern California Edison's (SCE) Blythe District from February 6, 2017 to February 10, 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 May 29, 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 Richard Kyo at (213) 576-7081 or <u>richard.kyo@cpuc.ca.gov</u>.

Sincerely,

Fadi Daye, 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 Lee Palmer, Deputy Directory, Safety and Enforcement Division, CPUC Charlotte TerKeurst, Program Manager, Electric Safety and Reliability Branch, 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:

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.

#### GO 165, Section III-C, Standards for Inspection, states:

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.

SCE's records indicated that from 2014 to 2017, SCE completed work orders numbered 406671119, 405264573, 406632005, and 406632031 past their scheduled due date of corrective action.

# III. Field Inspections

No.	Structure ID.	Type of Structure	Location
1	4186833E	Pole	Blythe
2	238412-S	Pole	Blythe
3	238413-S	Pole	Blythe
4	238414-S	Pole	Blythe
5	4797758E	Pole	Blythe
6	4794481E	Pole	Blythe
7	4507567E	Pole	Blythe
8	239699-S	Pole	Blythe
9	4627203E	Pole	Blythe
10	4627204E	Pole	Blythe
11	4627205E	Pole	Blythe
12	4627206E	Pole	Blythe
13	4627207E	Pole	Blythe
14	4627208E	Pole	Blythe
15	4627209E	Pole	Blythe
16	1232 CRT	Pole	Blythe
17	259046-S	Pole	Blythe
18	259047-S	Pole	Blythe
19	259048-S	Pole	Blythe
20	259049-S	Pole	Blythe
21	259050-S	Pole	Blythe
22	259051-S	Pole	Blythe
23	259052-S	Pole	Blythe
24	259053-S	Pole	Blythe
25	39806-S	Pole	Ripley
26	2205448E	Pole	Ripley
27	2326419E	Pole	Ripley
28	2326418E	Pole	Ripley
29	4199798E	Pole	Ripley
30	259123-S	Pole	Ripley
31	259122-S	Pole	Ripley
32	259121-S	Pole	Ripley
33	259120-S	Pole	Ripley
34	4874120E	Pole	Ripley
35	259118-S	Pole	Ripley
36	1306 CRT	Pole	Ripley
37	4187008E	Pole	Ripley
38	4774858E	Pole	Ripley
39	259116-S	Pole	Ripley

My staff inspected the following facilities during the field inspection:

40	259115-S	Pole	Ripley
41	439650-S	Pole	Blythe
42	1738731E	Pole	Blythe
43	1738730E	Pole	Blythe
44	4749078E	Pole	Blythe
45	4459478E	Pole	Blythe
46	1738732E	Pole	Blythe
47	4844295E	Pole	Blythe
48	1585848E	Pole	Blythe
49	239779-S	Pole	Blythe
50	4841362E	Pole	Blythe
51	4800754E	Pole	Blythe
52	2028641E	Pole	Blythe
53	1890904E	Pole	Blythe
54	2097569E	Pole	Blythe
55	59796-S	Pole	Blythe
56	2310862E	Pole	Blythe
57	2205426E	Pole	Blythe
58	2097539E	Pole	Blythe
59	439642-S	Pole	Blythe
60	39842-S	Pole	Ripley
61	239822-S	Pole	Ripley
62	2117103E	Pole	Ripley
63	2190738E	Pole	Ripley
64	2028641E	Pole	Ripley
65	V558462I	Vault	Blythe
66	V501715I	Manhole	Blythe
67	5006609	BURD-Transformer	Blythe
68	P5519399	Pad - Switch	Blythe
69	5171078	BURD - Transformer	Blythe
70	B5145721	BURD-Switch	Blythe

## **IV. Field Inspection Violations List**

My staff observed the following violations during the field inspection:

#### 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 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 following SCE poles had damaged high voltage signs:

-	4186822E	- 238412-S	- 259047-S	- 259049-S	- 259118-S
-	1738731E	- 1738730E	- 4459478E		

The following SCE poles were not marked with high voltage signs:

-	259047-S	- 259048-S	- 259050-S	- 259051-S	-259052-S	- 2326419E
-	2259115-S	- 439650-S	- 1738731E			

#### 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).

SCE pole number 39806-S was missing a section of ground moulding. SCE poles numbered 239699-S, 1738730E, and 2310862E had damaged ground molding.

#### 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 91.3-A1 Stepping, Use of Steps, Pole with Vertical Runs and Risers, states in part:

All jointly used poles which support supply conductors shall be provided with pole steps if vertical runs or risers are attached to the surface of such poles.

#### GO 95, Rule 54.7, Climbing Space and Work Space, Climbing Space, states in part:

Climbing space shall be maintained from the ground level. Climbing space, measured from center line of pole, shall be provided on one side or in one quadrant of all poles or structures with dimensions as specified in the following...

SCE pole number 4459478E was a joint use pole supporting a riser and did not have pole steps. Additionally, an SCE secondary riser was obstructing the climbing space.

#### 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 following SCE poles were damaged:

- SCE pole 1232 CRT (outer shell at top of pole had impact damage)
- SCE pole 4874120E (impact damage to outer shell approximately two feet above the ground-line of the pole)
- SCE pole 259046-S (impact damage to outer shell at the base of the pole)