

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



October 7, 2021

EA2021-911

Melvin Stark
Principle Manager, T&D Compliance Integration
Southern California Edison Company
1 Innovation Way
Pomona, CA 91786

Subject: Audit of Southern California Edison's Redlands District

Mr. Stark:

On behalf of the Electric Safety and Reliability Branch (ESRB) of the California Public Utilities Commission (CPUC), Richard Le, Saimon Islam, and Mily Vaidya of my staff conducted an electric distribution audit of Southern California Edison's (SCE) Redlands District from August 23, 2021 to August 27, 2021. The audit included a review of SCE's inspection and maintenance records and a field inspection 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 November 8, 2021, 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 Le at (213) 999 – 9053 or Richard.Le@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

Enclosure: Audit Findings

Cc: Lee Palmer, Director, Safety and Enforcement Division, CPUC
Nika Kjensli, Program Manager, ESRB, SED, CPUC
Majed Ibrahim, Senior Utilities Engineer, ESRB, SED, CPUC
Richard Le, Utilities Engineer, ESRB, SED, CPUC
Saimon Islam, Utilities Engineer, ESRB, SED, CPUC
Mily Vaidya, Utilities Engineer, ESRB, SED, CPUC

Audit Findings

I. Records Review

During the audit, my staff reviewed the following records:

- Overhead and underground detailed inspection records
- Patrol records
- Completed and pending corrective action work orders
- Pole load calculations
- Intrusive test records
- Safety hazard notifications
- SCE's documented inspection program.
- Vegetation Management Records

II. Records Review – Violations List

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

GO 165, Section III-B, Distribution Facilities, Standards for Inspection, states:

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.

GO 95, Rule 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's records indicated that from June 2016 through June 2021, SCE completed 1024 overhead detailed inspections past SCE's scheduled due date.

GO 165, Section III-B, Distribution Facilities, Standards for Inspection, states:

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.

GO 128, Rule 17.2, Inspection, states:

Systems shall be inspected by the operator frequently and thoroughly for the purpose of insuring that they are in good condition and in conformance with all applicable requirements these rules.

- SCE's records indicated that from June 2016 through June 2021, SCE completed 512 underground inspections past SCE's scheduled due date.

GO 95, Rule 18-B1, Maintenance Programs, states in part:

Companies shall undertake corrective actions within the time periods stated for each of the priority levels set forth below. Scheduling of corrective actions within the time periods below may be based on additional factors, including the following factors, as appropriate ...

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.

- SCE's records indicated that from June 2016 to June 2021, SCE completed 949 overhead work orders past SCE's due date for corrective action. Additionally, as of the date of the audit, SCE had 816 open overhead work orders that were past SCE's scheduled due date for corrective action.

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.

- SCE's records indicated that from June 2016 to June 2021, SCE completed 400 underground work orders past SCE's due date for corrective action. Additionally, as of the date of the audit, SCE had 411 open underground work orders that were past SCE's scheduled due date for corrective action.

III. Field Inspection

My staff inspected the following facilities during the field inspection portion of the audit:

No.	Structure ID.	Type of Structure	Location
1	4229788E	Pole	Angelus Oaks
2	4016217E	Pole	Angelus Oaks
3	1764168E	Pole	Angelus Oaks
4	4912733	Pole	Angelus Oaks
5	260376	Pole	Angelus Oaks
6	60070S	Pole	Angelus Oaks
7	4229789E	Pole	Angelus Oaks
8	4229790E	Pole	Angelus Oaks
9	4242598E	Pole	Forest Falls
10	4359646E	Pole	Forest Falls
11	4875925E	Pole	Forest Falls
12	60290	Pole	Forest Falls
13	4874722E	Pole	Forest Falls
14	4882014E	Pole	Forest Falls
15	8876CWT	Pole	Forest Falls
16	4893217E	Pole	Forest Falls
17	4875938E	Pole	Forest Falls
18	260427S	Pole	Forest Falls
19	60103	Pole	Forest Falls
20	4912927E	Pole	Mountain Home Village
21	4875287E	Pole	Mountain Home Village
22	2050811E	Pole	Mountain Home Village
23	4488571E	Pole	Mountain Home Village
24	4875714E	Pole	Mountain Home Village
25	CWT13401	Pole	Mountain Home Village
26	447585E	Pole	Yucaipa
27	CT251751	Pole	Yucaipa
28	4311742E	Pole	Yucaipa
29	447588E	Pole	Yucaipa
30	4311741E	Pole	Yucaipa
31	4485994E	Pole	Yucaipa
32	4311523E	Pole	Yucaipa
33	697926E	Pole	Yucaipa
34	697925E	Pole	Yucaipa
35	4573984E	Pole	Yucaipa
36	4892827E	Pole	Yucaipa
37	260391S	Pole	Yucaipa
38	779132E	Pole	Yucaipa
39	P5376360	Pad-mounted switch	Yucaipa

40	5012616	BURD Transformer	Yucaipa
41	5172380	BURD Transformer	Yucaipa
42	5172424	BURD Transformer	Yucaipa
43	2210840E	Pole	Banning
44	2312487E	Pole	Banning
45	2210839E	Pole	Banning
46	2210838E	Pole	Banning
47	4704525E	Pole	Banning
48	1806218E	Pole	Banning
49	4950575E	Pole	Banning
50	1806217E	Pole	Banning
51	1806216E	Pole	Banning
52	1764443E	Pole	Cherry Valley
53	461224E	Pole	Cherry Valley
54	4494130E	Pole	Cherry Valley
55	1407210E	Pole	Cherry Valley
56	1407211E	Pole	Cherry Valley
57	1407212E	Pole	Cherry Valley
58	30286CWT	Pole/Vegetation	Cherry Valley
59	4545649E	Pole/Vegetation	Cherry Valley
60	4853118E	Pole/Vegetation	Cherry Valley
61	1992609E	Pole	Calimesa
62	1992608E	Pole	Calimesa
63	1910457E	Pole	Calimesa
64	1910458E	Pole	Calimesa
65	1910580E	Pole	Calimesa
66	1910581E	Pole	Calimesa
67	1865471E	Pole	Calimesa
68	4370164E	Pole	Redlands
69	4825911E	Pole	Redlands
70	1214743E	Pole	Redlands
71	1214744E	Pole	Redlands
72	1214745E	Pole	Redlands
73	4369891E	Pole	Redlands
74	454124E	Pole	Redlands
75	4556826E	Pole	Redlands
76	389283E	Pole	Redlands
77	289282E	Pole	Redlands
78	389281E	Pole	Redlands
79	11766CWT	Pole	Redlands
80	11764CWT	Pole	Redlands
81	14563CWT	Pole	Redlands
82	5172425	BURD Transformer	Redlands
83	5432067	Pad-mounted transformer	Redlands
84	P5480907	Pad-mounted transformer	Redlands

85	5172425	BURD Transformer	Redlands
86	2341S	Pole	Colton
87	201991S	Pole	Colton
88	4930889E	Pole	Colton
89	200764	Pole	Colton
90	742914H	Pole	Colton
91	4868583E	Pole	Colton
92	742916H	Pole	Colton
93	742917H	Pole	Colton
94	1745545E	Pole	Grand Terrace
95	1407096E	Pole	Grand Terrace
96	1407097E	Pole	Grand Terrace
97	2121734E	Pole	Grand Terrace
98	2121733E	Pole	Grand Terrace
99	2121732E	Pole	Grand Terrace
100	2121731E	Pole	Grand Terrace
101	2121730E	Pole	Grand Terrace
102	201835S	Pole	Muscoy
103	200727S	Pole	Muscoy
104	200726S	Pole	Muscoy
105	F9727Y	Pole	Muscoy
106	201836S	Pole	Muscoy
107	2254880E	Pole	San Bernardino
108	1403160E	Pole	San Bernardino
109	1280592E	Pole	San Bernardino
110	1480779E	Pole	San Bernardino
111	1480780E	Pole	San Bernardino
112	2007163E	Pole	San Bernardino
113	1403153E	Pole	San Bernardino
114	P5539312	Pad-mounted transformer	San Bernardino
115	4242277E	Pole	Mentone
116	4242278E	Pole	Mentone
117	4269839E	Pole	Mentone
118	4891459E	Pole	Mentone
119	4891460E	Pole	Mentone
120	4891466E	Pole	Mentone
121	4891467E	Pole	Mentone
122	4760016E	Pole	Beaumont
123	782683E	Pole	Beaumont
124	782682E	Pole	Beaumont
125	4517369E	Pole	Loma Linda
126	4941851E	Pole	Loma Linda
127	2099977E	Pole	Loma Linda
128	P5315648	Pad-mounted transformer	Highland
129	P5315646	Pad-mounted switch	Highland

130	5436830	Pad-mounted transformer	Rialto
131	5309710	BURD Transformer	Rialto
132	5309711	BURD Transformer	Rialto

IV. Field Inspection – Violations List

My staff observed the following violations during the field inspections portion of the audit:

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 ground moulding on pole 11766CWT was damaged.

The guy anchor attached to each of the following SCE poles was buried in the ground:

- 4875287E
- 2050811E
- 742914H
- 1403153E

GO 95, Rule 31.6, Abandoned Lines, states in part:

Lines or portions of lines permanently abandoned shall be removed by their owners so that such lines shall not become a public nuisance or a hazard to life or property. For the purposes of this rule, lines that are permanently abandoned shall be defined as those lines that are determined by their owner to have no foreseeable future use.

- An abandoned guy anchor next to Pole 447588E was not removed.

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.

- Pole 4912927E had a “no parking” sign attached to it.
- Pole 1214744E had a customer fence attached to it.

GO 95, Rule 51.6, 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 each of the following SCE poles were either missing or damaged:

- CT251751
- 4311741E
- 4311523E
- 697926E
- 1407212E
- 1910457E
- 742914H
- 1407096E
- 2121734E
- 2121732E
- 2121730E
- 2007163E
- 4892827E
- 11766CWT

GO 95, Rule 56.2 Overhead Guys, Anchor Guys and Span Wires, 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 down guy wire attached on each of the following SCE poles was loose and not taut:

- 4892827E
- 2099977E

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.

- The enclosure of pad-mounted switch P5315646 was corroded.