STATE OF CALIFORNIA Gavin Newsom, *Governor*
PUBLIC UTILITIES COMMISSION
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298

January 5, 2023 TA2022-989

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

Subject: Transmission Audit of SCE Eastern Grid

Mr. Stark:

On behalf of the Electric Safety and Reliability Branch of the California Public Utilities Commission (CPUC), Mily Vaidya of my staff conducted a transmission audit of Southern California Edison's (SCE) Eastern Grid from October 10, 2022, to October 14, 2022. The audit included a review of SCE's records and field inspections of SCE's 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 February 6, 2023, 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 Mily Vaidya at (213) 999-8528 or Mily.Vaidya@cpuc.ca.gov.

Sincerely,

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: Lee Palmer, Director, Safety and Enforcement Division, CPUC
Nika Kjensli, Program Manager, ESRB, SED, CPUC
Mily Vaidya, Utilities Engineer, ESRB, SED, CPUC

AUDIT FINDINGS

I. Records Review

During the audit, my staff reviewed the following records:

- Circuit facility inspection records.
- Completed and pending corrective action work orders.
- Pole loading calculations.
- Tower Structure Analysis Records
- Safety hazard notifications.
- Intrusive test records
- SCE's documented inspection program.

II. Field Inspections

My staff inspected the following facilities during the field inspection:

No.	Structure ID	Structure Type	Location
1	M14-T3	Tower	Grand Terrace
2	M0-T3	Tower	Grand Terrace
3	M0-T6	Tower	Grand Terrace
4	1239979E	Pole	Grand Terrace
5	1259924E	Pole	Grand Terrace
6	M14-T3	Tower	Grand Terrace
7	1239978E	Pole	Grand Terrace
8	1239977E	Pole	Grand Terrace
9	1239976E	Pole	Grand Terrace
10	1239975E	Pole	Grand Terrace
11	1259920E	Pole	Grand Terrace
12	1259921E	Pole	Grand Terrace
13	1259922E	Pole	Grand Terrace
14	1259923E	Pole	Grand Terrace
15	M14-T1	Tower	Colton
16	4526222E	Pole	Colton
17	1274366E	Pole	Colton
18	1259941E	Pole	Colton
19	M13-T1	Tower	Colton
20	4428547E	Pole	Colton
21	M2-T1	Tower	Colton
22	4428548E	Pole	Colton
23	4010207E	Pole	Colton
24	2267010E	Pole	Colton
25	M13-T1	Tower	Colton
26	M2-T1	Tower	Colton
27	M19-7	Tower	Colton
28	4329218E	Pole	Colton
29	4329217E	Pole	Colton
30	M0-T2	Tower	Grand Terrace
31	661207E	Pole	Grand Terrace
32	4438430E	Pole	Grand Terrace
33	4387036E	Pole	Grand Terrace
34	M0-T3	Tower	Grand Terrace
35	4387044E	Pole	Grand Terrace
36	8207707E	Pole	Grand Terrace
37	4387045E	Pole	Grand Terrace
38	1420595E	Pole	Grand Terrace
39	4536582E	Pole	Grand Terrace
40	827708E	Pole	Grand Terrace

41	1420593E	Pole	Grand Terrace
42	827709E	Pole	Colton
43	M0-T4	Tower	Colton
44	1208383E	Pole	Colton
45	1208384E	Pole	Colton
46	M0-T3	Tower	Colton
47	M0-T5	Tower	Colton
48	827713E	Pole	Colton
49	827712E	Pole	Colton
50	1420591E	Pole	Colton
51	125168S	Pole	Moreno Valley
52	4601073E	Pole	Moreno Valley
53	2072790E	Pole	Moreno Valley
54	1848668E	Pole	Moreno Valley
55	4503850E	Pole	Moreno Valley
56	2072792E	Pole	Moreno Valley
57	1923270E	Pole	Moreno Valley
58	1923271E	Pole	Moreno Valley
59	1923272E	Pole	Moreno Valley
60	1923273E	Pole	Beaumont
61	4503527E	Pole	Beaumont
62	4503529E	Pole	Beaumont
63	4503530E	Pole	Beaumont
64	4503532E	Pole	Beaumont
65	4503533E	Pole	Beaumont
66	4503534E	Pole	Beaumont
67	4601906E	Pole	Cabazon
68	4601907E	Pole	Cabazon
69	4805734E	Pole	Cabazon
70	1989039E	Pole	Cabazon
71	1989040E	Pole	Cabazon
72	4805735E	Pole	Cabazon
73	1989041E	Pole	Cabazon
74	4805736E	Pole	Cabazon
75	4605145E	Pole	Desert Hot Springs
76	4751752E	Pole	Desert Hot Springs
77	4751751E	Pole	Desert Hot Springs
78	4431613E	Pole	Desert Hot Springs
79	4431614E	Pole	Desert Hot Springs
80	4431615E	Pole	Desert Hot Springs
81	4431616E	Pole	Desert Hot Springs
82	4431617E	Pole	Desert Hot Springs
83	4605147E	Pole	Desert Hot Springs
84	4534730E	Pole	Desert Hot Springs
85	4533543E	Pole	Desert Hot Springs

86	4620697E		Desert Hot Springs
87	4620696E		Desert Hot Springs
88	4695928E		Desert Hot Springs
89	4695927E		Desert Hot Springs
90	4695926E		Desert Hot Springs
91	2032469E		Desert Hot Springs
92	4531847E		Desert Hot Springs
93	4531848E		Desert Hot Springs
94	4092063E		Desert Hot Springs
95	2032467E		Desert Hot Springs
96	2032466E		Desert Hot Springs
97	M1-T3/7028883		Desert Hot Springs
98	1981317E		Riverside
99	1981309E		Riverside
100	4721707E		Riverside
101	4721706E		Riverside
102	VT4591		San Bernardino
103	VT4590		San Bernardino
104	VT4521		San Bernardino
105	V6000024		San Bernardino
106	V6000048		San Bernardino
107	VT4551		San Bernardino
108	V6001317		San Bernardino
109	V6001316		San Bernardino
110	1813689E		San Bernardino
111	1813690E		San Bernardino
112	4026874E		San Bernardino
113	4503506E		San Bernardino
114	4503505E		San Bernardino
115	4503504E		San Bernardino
116	4503503E		San Bernardino
117	4503501E		San Bernardino
118	A1320380E		Yucipia
119	A1320383E		Yucipia

III. Field Inspection - Violations List

My staff observed the following violations during the field inspection 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 following SCE transmission facilities required maintenance:

- For the following poles, the portion of the down guy anchor that connects to the down guy wire was buried.
  - 4010207E
  - 4805734E
  - 2032469E

- The following towers (in Colton) had a concrete foundation that was completely buried such that the dirt was covering steel members:
  - M0-T4
  - M0-T3

- The following poles had damage ground moulding:
  - 1923270E
  - 1923271E
  - 1923272E
  - 4503527E
  - 4503529E
  - 4503533E
  - 2032469E
  - 1981317E
  - 1981309E
  - 4026874E
  - 4503506E
  - 4503504E
  - 4503503E
  - A1320380E

- Poles numbered 4531847E and 4531848E each had a down guy wire that was not taut.
- Poles numbered 4387044E and 4026874E both had a broken ground wire.

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.'*
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The high voltage signs on each of the following poles were either missing or damaged:

- 1274366E
- 4329218E
- 4387036E