

## PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



May 25, 2023

TA2023-1055

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

Subject: Transmission Audit of Southern California Edison's Metro East Grid

Mr. Stark:

On behalf of the Electric Safety and Reliability Branch of the California Public Utilities Commission (CPUC), Eric Ujiiye of my staff conducted an electric transmission audit of Southern California Edison's (SCE) Metro East Grid from April 17, 2023 to April 21, 2023. 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 June 26, 2023, by electronic or hard copy, of all corrective measures taken by SCE to remedy and prevent the recurrence of 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](mailto: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: Leslie Palmer, Director, Safety and Enforcement Division, CPUC  
Nika Kjensli, Program Manager, ESRB, CPUC  
Eric Ujiiye, Utilities Engineer, ESRB, 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. Records Review – Violations List

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

**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.*

**GO 95, Rule 31.2, Inspection of Lines**, states in part:

*Lines shall be inspected frequently and thoroughly for the purpose of insuring that they are in good condition so as to conform with these rules.*

SCE's inspection records indicated that from 2016 to 2022, SCE performed 5 underground detailed inspections past SCE's assigned inspection due dates.

### III. Field Inspections

My staff inspected the following facilities during the field inspection:

No.	Structure ID	Circuit	Structure	Location
1	7028297 (M27/T4)	Mesa-Vincent and Rio Hondo-Vincent No. 2	Tower	Duarte
2	M54 / T3	Rio Hondo-Vincent No. 1	Tower	Duarte
3	M55 / T1	Rio Hondo-Vincent No. 1	Tower	Duarte
4	7028298 (M28 / P1)	Mesa-Vincent and Rio Hondo-Vincent No. 2	Pole	Duarte
5	M55 / T1A	Rio Hondo-Vincent No. 1	Tower	Duarte
6	M55 / T2	Rio Hondo-Vincent No. 1	Tower	Duarte
7	7028299 (M28 / P2)	Mesa-Vincent and Rio Hondo-Vincent No. 2	Pole	Duarte
8	1567359E	Rio Hondo-Dalton-Finance-Lark Ellen	Pole	Irwindale
9	1567358E	Rio Hondo-Dalton-Finance-Lark Ellen	Pole	Irwindale
10	4864754E	Rio Hondo-Dalton-Finance-Lark Ellen	Pole	Irwindale
11	1567357E	Rio Hondo-Dalton-Finance-Lark Ellen	Pole	Irwindale
12	1567356E	Rio Hondo-Dalton-Finance-Lark Ellen	Pole	Irwindale
13	1567355E	Rio Hondo-Dalton-Finance-Lark Ellen	Pole	Irwindale
14	1557947E	Rio Hondo-Aero Jet-Azusa-Brew	Pole	Irwindale
15	1557948E	Rio Hondo-Aero Jet-Azusa-Brew	Pole	Irwindale
16	1557949E	Rio Hondo-Aero Jet-Azusa-Brew	Pole	Irwindale
17	1557950E	Rio Hondo-Aero Jet-Azusa-Brew	Pole	Irwindale
18	1508761E	Rio Hondo-Aero Jet-Azusa-Brew	Pole	Irwindale
19	1508762E	Rio Hondo-Aero Jet-Azusa-Brew	Pole	Irwindale
20	1508763E	Rio Hondo-Aero Jet-Azusa-Brew	Pole	Irwindale
21	7027146 (M4/T2)	Chino-Mira Loma No.1, Chino-Mira Loma No. 2	Tower	Rancho Cucamonga
22	M228/T3N	Chino-Mira Loma No.1	Tower	Rancho Cucamonga
23	7026145 (M4/T1)	Chino-Mira Loma No.1, Chino-Mira Loma No. 2	Tower	Rancho Cucamonga
24	7009125 (M228/T4)	Chino-Mira Loma No.1	Tower	Rancho Cucamonga
25	7027144 (M3/T5)	Chino-Mira Loma No.1, Chino-Mira Loma No. 2	Tower	Rancho Cucamonga
26	M229/T1N	Chino-Mira Loma No.1	Tower	Rancho Cucamonga
27	7027143	Chino-Mira Loma No.1, Chino-Mira Loma No. 2	Tower	Rancho Cucamonga
28	M229/T2N	Chino-Mira Loma No.1	Tower	Rancho Cucamonga
29	7027142 (M3/T3)	Chino-Mira Loma No.1, Chino-Mira Loma No. 2	Tower	Rancho Cucamonga

30	M229/T3	Chino-Mira Loma No.1	Tower	Rancho Cucamonga
31	7027141 (M3/T2)	Chino-Mira Loma No.1, Chino-Mira Loma No. 2	Tower	Rancho Cucamonga
32	M229/T4N	Chino-Mira Loma No.1	Tower	Rancho Cucamonga
33	M3/T1	Chino-Mira Loma No.1, Chino-Mira Loma No. 2	Tower	Rancho Cucamonga
34	M229/T5N	Chino-Mira Loma No.1	Tower	Rancho Cucamonga
35	M2/T5	Chino-Mira Loma No.1, Chino-Mira Loma No. 2	Tower	Rancho Cucamonga
36	M11/T6	Padua-Rancho Vista No.2	Tower	Upland
37	M11/T6	Padua-Rancho Vista No.1	Tower	Upland
38	M11/T5	Padua-Rancho Vista No.2, Padua-Rancho Vista No. 1	Tower	Upland
39	M11/T4	Padua-Rancho Vista No.2, Padua-Rancho Vista No. 1	Tower	Upland
40	M11/T3	Padua-Rancho Vista No.2, Padua-Rancho Vista No. 1	Tower	Upland
41	7009524 (M11/T7)	Padua-Rancho Vista No.2	Tower	Upland
42	7009522 (M11/T7)	Padua-Rancho Vista No.1	Tower	Upland
43	M12/T1	Padua-Rancho Vista No.2, Padua-Rancho Vista No. 1	Tower	Upland
44	4461286E	Walnut-Hillgen-Industry-Mesa-Reno	Pole	City of Industry
45	4461287E	Walnut-Hillgen-Industry-Mesa-Reno	Pole	City of Industry
46	4461288E	Walnut-Hillgen-Industry-Mesa-Reno	Pole	City of Industry
47	4461289E	Walnut-Hillgen-Industry-Mesa-Reno	Pole	City of Industry
48	M11/T8	Walnut-Hillgen-Industry-Mesa-Reno	Tower	City of Industry
49	M11/T7	Walnut-Hillgen-Industry-Mesa-Reno	Tower	City of Industry
50	M11/T6	Walnut-Hillgen-Industry-Mesa-Reno	Tower	City of Industry
51	M11/T5	Walnut-Hillgen-Industry-Mesa-Reno	Tower	City of Industry
52	7028450 (M43/T2)	Mesa-Mira Loma	Tower	La Puente Hills
53	7010620 (M8/T2)	Center-Linda, Mesa-Walnut	Tower	La Puente Hills

54	7028452 (M44/T1)	Mesa-Mira Loma	Tower	La Puente Hills
55	7010619 (M8/T1)	Center-Linda, Mesa-Walnut	Tower	La Puente Hills
56	M8/T9	Walnut-Hillgen-Industry-Mesa-Reno	Tower	La Puente Hills
57	4607915E	Walnut-Hillgen-Industry-Mesa-Reno	Pole	La Puente Hills
58	M8/T7	Mesa-Narrows	Tower	La Puente Hills
59	M8/T6	Mesa-Narrows	Tower	La Puente Hills
60	7014074 (M66/T1)	Mesa-Rio Hondo No.1, Mesa- Rio Hondo No. 2	Tower	La Puente Hills
61	7028410 (M39/T1)	Mesa-Vincent	Tower	La Puente Hills
62	4327223E	Rio Hondo-Amador-Jose-Mesa	Pole	La Puente Hills
63	4787845E	Rio Hondo-Amador-Jose-Mesa	Pole	La Puente Hills
64	M66/T1A	Mesa-Rio Hondo No.1, Mesa- Rio Hondo No. 2	Tower	La Puente Hills
65	VT6001182	Walnut-Nogales-Railroad No.2, Diamond Bar-Grand Crossing-Sopipe	Vault	Walnut
66	4607921E	Walnut-Nogales-Railroad No.2, Diamond Bar-Grand Crossing-Sopipe	Pole	Walnut
67	VT6001181	Walnut-Nogales-Railroad No.2, Diamond Bar-Grand Crossing-Sopipe	Vault	Walnut
68	VT6001180	Walnut-Nogales-Railroad No.2, Diamond Bar-Grand Crossing-Sopipe	Vault	Walnut
69	VT6001178	Walnut-Nogales-Railroad No.2, Diamond Bar-Grand Crossing-Sopipe	Vault	Walnut
70	VT600120481	Mira Loma - Vincent	Vault	Chino
71	VT6001349	Chino-Peyton-Soquel, Chino-Soquel	Vault	Chino
72	VT6001352	Chino-Ganesha-Plastic	Vault	Chino
73	VT6001346	Chino-Diamond Bar-Ganesha	Vault	Chino
74	43210 (6001347)	Chino-Diamond Bar-Ganesha, Chino-Ganesha-Peyton	Vault	Chino

#### 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 following SCE transmission facilities were damaged and required maintenance:

- A leg of Tower M55/T1 of the Rio Hondo-Vincent No. 1 circuit was missing a nut and a bolt near the footing.
- A steel member near the base of Tower M229/T4N of the Chino-Mira Loma No.1 circuit was damaged.
- A footing attachment point of Tower M229/T1 of the Chino-Mira Loma No.1, Chino-Mira Loma No. 2 was buried.
- Two insulator bells and one insulator bell on another string of insulators supported on Tower M11/T6 of the Padua-Rancho Vista No.2 circuit were damaged.
- The base of Tower M11/T6 of the Padua-Rancho Vista No.1 circuit was covered in heavy vegetation, not allowing clear access to the base of the tower.
- A footing attachment point of Tower M11/T3 of the Padua-Rancho Vista No.2, Padua-Rancho Vista No. 1 was buried.
- A steel member near the base of Tower M11/T7 of the Walnut-Hillgen-Industry-Mesa-Reno circuit was damaged.

**GO 95, Rule 61.6, Marking and Guarding**, states in part:

*All towers shall be equipped with signs designed to warn the public of the danger of climbing same. Additionally, such signs shall include a graphic depiction of the dangers of falling or electrocution associated with climbing the towers. Such signs shall be placed and arranged so that they may be read from the four corners of the tower.*

The warning signs on each of the following SCE transmission towers and structures could not be read from all four corners of the tower or structures.

- Vegetation obstructed the warning sign attached to Tower 7028297 (M27/T4) from being seen from all four corners of the tower.
- The warning sign attached to Tower M54/T3 of the Rio Hondo-Vincent No. 1 circuit could not be seen from all four corners of the tower.