

## PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



August 26, 2019

EA2019-829

Brian Prusnek  
Director of Regulatory Affairs  
San Diego Gas & Electric Company (SDG&E)  
904 West Main Street  
El Cajon, CA 92020

**SUBJECT:** Audit of SDG&E's Eastern District

Mr. Prusnek:

On behalf of the Electric Safety and Reliability Branch of the California Public Utilities Commission (CPUC), James Miller and Kyle King of my staff conducted an electric distribution audit of SDG&E's Eastern District from May 13, 2019 to May 17, 2019. The audit included a review of SDG&E's records and field inspections of SDG&E'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 September 26, 2019, by electronic or hard copy, of all corrective measures taken by SDG&E to remedy and prevent such violations.

If you have any questions concerning this audit, you can contact James Miller at (213) 266-4715 or [James.Miller@cpuc.ca.gov](mailto:James.Miller@cpuc.ca.gov).

Sincerely,

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

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

Enclosure: 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  
James Miller, Utilities Engineer, Electric Safety and Reliability Branch, CPUC

## **AUDIT FINDINGS**

### **I. Records Review**

During the audit, my staff reviewed the following records:

- Patrol Maps
- Cancelled Orders Report
- Completed Repair Orders
- Overhead and underground detailed inspection records
- Late Inspections 2013-2018
- Late Repair Orders 2013-2019
- Notifications of Non-Conformance
- Patrol Inspections Report
- Pole Loading Calculations Report
- Safety Hazard Notifications
- Work Orders Created Report

## II. Field Inspections

My staff inspected the following facilities during the field inspection:

No.	Structure No.	Type of Structure	Location
1	P113246	Pole	Campo
2	P113245	Pole	Campo
3	P113244	Pole	Campo
4	P113234	Pole	Campo
5	P202495	Pole	Campo
6	P202496	Pole	Campo
7	P202497	Pole	Campo
8	P202498	Pole	Campo
9	P202499	Pole	Campo
10	P202500	Pole	Campo
11	P113301	Pole	Campo
12	P113304	Pole	Campo
13	P194611	Pole	Campo
14	P196630	Pole	Campo
15	P196631	Pole	Campo
16	P370719	Pole	Alpine Valley
17	P970343	Pole	Alpine Valley
18	P138961	Pole	Alpine Valley
19	P173207	Pole	Alpine Valley
20	P370718	Pole	Alpine Valley
21	P173179	Pole	Alpine Valley
22	P173180	Pole	Alpine Valley
23	P876847	Pole	Alpine Valley
24	P276273	Pole	Alpine Valley
25	P276274	Pole	Alpine Valley
26	P104069	Pole	Alpine Valley
27	P173181	Pole	Alpine Valley
28	P173182	Pole	Alpine Valley
29	P478927	Pole	Alpine Valley
30	P173183	Pole	Alpine Valley
31	P198878	Pole	Cuyamaca
32	P198879	Pole	Cuyamaca
33	P198880	Pole	Cuyamaca
34	P198881	Pole	Cuyamaca
35	P200497	Pole	Cuyamaca
36	P200498	Pole	Cuyamaca
37	P200499	Pole	Cuyamaca
38	P200500	Pole	Cuyamaca
39	P200501	Pole	Cuyamaca
40	P877181	Pole	Cuyamaca
41	P877180	Pole	Cuyamaca

42	P273592	Pole	Cuyamaca
43	P273600	Pole	Cuyamaca
44	P273601	Pole	Cuyamaca
45	P871681	Pole	Cuyamaca
46	P873812	Pole	Alpine
47	P873811	Pole	Alpine
48	P873810	Pole	Alpine
49	P874593	Pole	Alpine
50	P875339	Pole	Alpine
51	P875341	Pole	Alpine
52	P878207	Pole	Alpine
53	P972452J	Pole	Alpine
54	P108874	Pole	Alpine
55	P108875	Pole	Alpine
56	P108876	Pole	Alpine
57	P170551	Pole	Alpine
58	P874594	Pole	Alpine
59	P246303S	Pole	Alpine
60	P170552	Pole	Alpine
61	D2398678240	Transformer	San Diego County
62	D2298978274	Transformer	San Diego County
63	D2296478275	Transformer	San Diego County
64	D235036	Transformer	San Diego County
65	D2145677842	Transformer	San Diego County
66	D135802	Switch	San Diego County
67	D135806	Switch	San Diego County
68	D159824	Regulator	San Diego County
69	D159834	Regulator	San Diego County
70	D159835	Regulator	San Diego County
71	D2293076505	Transformer	San Diego County
72	D2292877560	Transformer	San Diego County
73	D2292377445	Transformer	San Diego County
74	H2292877595	Hand-Hole	San Diego County
75	D2344877751	Fuse Cabinet	San Diego County
76	P272284	Pole	San Diego County
77	P373313J	Pole	San Diego County
78	P278086	Pole	San Diego County
79	P278803	Pole	San Diego County
80	Z370506	Pole	San Diego County
81	P676770	Pole	San Diego County
82	P177309	Pole	San Diego County
83	P76991	Pole	San Diego County
84	P78814	Pole	San Diego County
85	P76260	Pole	San Diego County
86	P28251	Pole	San Diego County
87	P570661	Pole	San Diego County

88	P270969	Pole	San Diego County
89	P177309	Pole	San Diego County
90	P76991	Pole	San Diego County
91	P177360J	Pole	San Diego County
92	P576858J	Pole	San Diego County

### III. Field Inspection Violations List

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

**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 SDG&E poles were damaged and/or missing:

- P200500
- P108874
- P108875
- P108876

**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.*

Guy wires supported on the following SDG&E poles were not taut:

- P200497
- P113234
- P972452J
- P196630
- P370719
- P270969 - The down guy wire broke from its attachment to the anchor and was dangling from the pole.

**GO 95, 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.*

A guy anchor on pole No. P200497 was an abandoned.

**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 44.1, Installation and Reconstruction**, states in part:

*Lines and elements of lines, upon installation or reconstruction, shall provide as a minimum the safety factors specified in Table 4. The design shall consider all supply and communication facilities planned to occupy the structure. For purposes of this rule, the term “planned” applies to the facilities intended to occupy the structure that are actually known to the constructing company at the time of design.*

The pole loading calculations for the following SDG&E poles did not include all of facilities supported on the pole:

- P28251 – A communication conductor was supported on the pole that was not represented in the pole loading calculation.
- P570661 – Two communication conductors supported on the pole were not represented in the pole loading calculation.