

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



September 10, 2024

EA2024-1234

Thomas Wilke
Manager of Electric Distribution
Burbank Water and Power
164 W. Magnolia Blvd
Burbank, CA 91502

Subject: Audit of Burbank Water and Power

Mr. Wilke:

On behalf of the Electric Safety and Reliability Branch (ESRB) of the California Public Utilities Commission (CPUC), Kyle King of my staff conducted an electric distribution audit of Burbank Water and Power (BWP) service territory from July 29 – August 2, 2024. The audit included a review of BWP's inspection and maintenance records and a field inspection of BWP'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 October 11, 2024, by electronic or hard copy, of all corrective measures taken by BWP to remedy and prevent such violations.

Please note that ESRB will be posting the audit report and your response to our audit on the CPUC website. If there is any information in your response that you would like us to consider as confidential, we request that in addition to your confidential response, you also provide us with a public or redacted version of your response that can be posted publicly on our website.

If you have any questions concerning this audit, you can contact Stacey Ocampo at (213) 222-3260 or Kyle.King@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
Kyle King, 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
- BWP's documented inspection program.
- Vegetation Management Records

II. Records Review – Violations List

We observed the following violations during the records review portion of the audit.

GO 95, Rule 18-A1: Resolution of Potential Violations of General Order 95 and Safety Hazards, states in part:

Upon completion of the corrective action, the company's records shall show, with sufficient detail, the nature of the work, the date, and the identity of persons performing the work. These records shall be preserved by the company for at least ten (10) years.

GO 165, Section III-C: Record Keeping, states:

The utility shall maintain records for (1) at least ten (10) years of patrol and detailed inspection activities, and (2) the life of the pole for intrusive inspection activities. Such records shall be made available to parties or pursuant to Commission rules upon 30 days notice. Commission staff shall be permitted to inspect such records consistent with Public Utilities Code Section 314 (a).

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.

BWP does not have formal repair work order records associated with its inspections. BWP's inspectors and maintenance crews communicate informally, e.g. via e-mail, to resolve discovered issues. The communications that take the place of formal work order records do not always contain a scheduled date of corrective action, as required by the above rule.

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

The auditable maintenance program must include, at a minimum, records that show the date of the inspection, type of equipment/facility inspected, findings, and a timeline for corrective actions to be taken following the identification of a potential violation of GO 95 or a Safety Hazard on the company's facilities.

BWP has priority levels in its inspection manual for issues discovered during inspections, however, BWP does not consistently document and track timeline for corrective action based on its priority system.

III. Field Inspection

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

No.	Structure ID	Type of Structure	City
1	31804B	Pole	Burbank
2	31803B	Pole	Burbank
3	31802B	Pole	Burbank
4	31801B	Pole	Burbank
5	31800B	Pole	Burbank
6	31491B	Pole	Burbank
7	31799B	Pole	Burbank
8	31798B	Pole	Burbank
9	31877B	Pole	Burbank
10	30895B	Pole	Burbank
11	25657B	Pole	Burbank
12	25656B	Pole	Burbank
13	31957B	Pole	Burbank
14	25654B	Pole	Burbank
15	25653B	Pole	Burbank
16	25652B	Pole	Burbank
17	25651B	Pole	Burbank
18	25650B	Pole	Burbank
19	31805B	Pole	Burbank
20	31806B	Pole	Burbank
21	31878B	Pole	Burbank
22	31163B	Pole	Burbank
23	31867B	Pole	Burbank
24	31868B	Pole	Burbank
25	26524B	Pole	Burbank
26	31884B	Pole	Burbank
27	28630B	Pole	Burbank
28	31162B	Pole	Burbank
29	31161B	Pole	Burbank
30	31912B	Pole	Burbank
31	31925B	Pole	Burbank
32	31926B	Pole	Burbank
33	31927B	Pole	Burbank
34	22189B	Pole	Burbank
35	32079B	Pole	Burbank
36	32087B	Pole	Burbank
37	32088B	Pole	Burbank
38	22187B	Pole	Burbank
39	32100B	Pole	Burbank
40	30732B	Pole	Burbank

41	26228B	Pole	Burbank
42	27970B	Pole	Burbank
43	27969B	Pole	Burbank
44	27968B	Pole	Burbank
45	27967B	Pole	Burbank
46	27966B	Pole	Burbank
47	27965B	Pole	Burbank
48	27964B	Pole	Burbank
49	27962B	Pole	Burbank
50	27960B	Pole	Burbank
51	27959B	Pole	Burbank
52	21895B	Pole	Burbank
53	27958B	Pole	Burbank
54	27957B	Pole	Burbank
55	23322B	Pole	Burbank
56	27932B	Pole	Burbank
57	27956B	Pole	Burbank
58	22681B	Pole	Burbank
59	27955B	Pole	Burbank
60	27954B	Pole	Burbank
61	27953B	Pole	Burbank
62	27933B	Pole	Burbank
63	28529B	Pole	Burbank
64	27963B	Pole	Burbank
65	23754B	Pole	Burbank
66	27952B	Pole	Burbank
67	27951B	Pole	Burbank
68	27950B	Pole	Burbank
69	27949B	Pole	Burbank
70	27948B	Pole	Burbank
71	27947B	Pole	Burbank
72	28561B	Pole	Burbank
73	27946B	Pole	Burbank
74	27945B	Pole	Burbank
75	27944B	Pole	Burbank
76	27943B	Pole	Burbank
77	27942B	Pole	Burbank
78	27941B	Pole	Burbank
79	27940B	Pole	Burbank
80	27939B	Pole	Burbank
81	20462B	Pole	Burbank
82	19553B	Pole	Burbank
83	19554B	Pole	Burbank
84	19555B	Pole	Burbank
85	27806B	Pole	Burbank

86	19297B	Pole	Burbank
87	23916B	Pole	Burbank
88	29336B	Pole	Burbank
89	29338B	Pole	Burbank
90	23411B	Pole	Burbank
91	16441B	Pole	Burbank
92	16440B	Pole	Burbank
93	29747B	Pole	Burbank
94	16437B	Pole	Burbank
95	25253B	Pole	Burbank
96	16435B	Pole	Burbank
97	28098B	Pole	Burbank
98	28099B	Pole	Burbank
99	28100B	Pole	Burbank
100	14282B	Pole	Burbank
101	20170B	Pole	Burbank
102	21718B	Pole	Burbank
103	24749B	Pole	Burbank
104	29000B	Pole	Burbank
105	18951B	Pole	Burbank
106	18887B	Pole	Burbank
107	21115B	Pole	Burbank
108	23498B	Pole	Burbank
109	24402B	Pole	Burbank
110	10070B	Pole	Burbank
111	10071B	Pole	Burbank
112	21114B	Pole	Burbank
113	24642B	Pole	Burbank
114	30755B	Pole	Burbank
115	23413B	Pole	Burbank
116	P-1186	Pad-mounted Transformer	Burbank
117	PB-558	Pull Box	Burbank
118	P-1194	Pad-mounted Transformer	Burbank
119	P-1193	Pad-mounted Transformer	Burbank
120	PB-575	Pull Box	Burbank
121	PMS-109	Pad-mounted Switch	Burbank
122	P-1268	Pad-mounted Transformer	Burbank
123	P-1269	Pad-mounted Transformer	Burbank
124	PMS-133	Pad-mounted Switch	Burbank
125	PB-550	Pull Box	Burbank
126	P-1173	Pad-mounted Transformer	Burbank
127	PMS-101	Pad-mounted Switch	Burbank
128	PMS-99	Pad-mounted Switch	Burbank
129	P-1166	Pad-mounted Transformer	Burbank
130	P-1172	Pad-mounted Transformer	Burbank

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.

BWP facilities on the following poles required maintenance:

- 27962B: the visibility strip was damaged.
- 27958B: the visibility strip was damaged.
- 23322B: the visibility strip was damaged.
- 27944B: the visibility strip was damaged.
- 27959B: a conduit riser was damaged.
- 27942B: a conduit riser was damaged.
- 27941B: a conduit riser was damaged.

GO 95, Rule 56.2, Overhead Guys, Anchor Guys and Span Wire 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 supporting each of the following poles was not maintained taut:

- 27939B
- 27970B

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).

The ground moulding attached to each of the following poles was damaged:

- 25653B
- 27943B

GO 95, Rule 38 - Minimum Clearances of Wires from Other Wires, Table 2, Column C, Case 19 requires the minimum radial clearance between guys and span wires passing communication conductors supported on the same poles to be 3 inches.

BWP facilities on the following poles did not have the minimum clearance of 3 inches:

- Pole 27939B: a BWP fiber optic communications conductor was contacting a down guy wire attached to the same pole.
- Pole 29000B: a BWP down guy wire was contacting a third-party communications conductor attached to the same pole.

GO 95, Rule 56.4-D2: From Guys or Span Wires, states:

Passing and Attached to Same Pole: The radial clearance between different guys, different span wires, or different guys and span wires, attached to the same pole shall not be less than 3 inches.

A BWP span guy wire attached to Pole 29000B was contacting a down guy wire attached to the same pole.

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 BWP poles were damaged:

- 16440B
- 16437B
- 16435B
- 28099B
- 28100B
- 14282B
- 20462B
- 19553B
- 19554B
- 23916B
- 23411B
- 23413B
- 24749B
- 18951B
- 23498B
- 24402B
- 10070B
- 10071B

GO 95, Rule 58.5-B3b, Conductors Not Supported by Messengers, states in part:

All parts of street light drop wires, street lamps, and their supporting fixtures (including rods, braces and guys) shall not be less than 1 foot radially from all unprotected conductors not supported on messengers (including lead wires and taps) except the lead wires supplying the street lamps within 24 inches of their points of entrance to the street lighting equipment.

A BWP secondary conductor on BWP pole number 31799B was touching a BWP street light fixture on the same pole.

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.

Padmounted transformer P-1166 had vegetation blocking the front door and had corrosion on the back of the padmount.