

## PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



October 3, 2016

SA2016-007

Heide Caswell  
Director-T&D Asset Performance  
825 NE Multnomah, Suite 1500  
Portland, OR 97232

**SUBJECT:** Audit of PacifiCorp Crescent City Region

Ms. Caswell:

On behalf of the Electric Safety and Reliability Branch (ESRB) of the California Public Utilities Commission, Wilson Tsai of my staff conducted a Substation audit of PacifiCorp's Crescent City Region from September 12, 2016 to September 15, 2016. The audit included a review of PacifiCorp's records and field inspections of PacifiCorp'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 3, 2016, by electronic or hard copy, of all corrective measures taken by Comcast to remedy and prevent such violations.

If you have any questions concerning this audit please contact Wilson Tsai at (415) 703-1359 or [wilson.tsai@cpuc.ca.gov](mailto:wilson.tsai@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: Elizaveta Malashenko, Director, Safety and Enforcement Division, CPUC  
Charlotte TerKeurst, Program Manager, Electric Safety and Reliability Branch, CPUC

## AUDIT FINDINGS

### I. Records Review

My staff reviewed the following records during the audit:

- a. PacifiCorp's GO 174 inspection and maintenance programs
- b. Summary of completed and late inspections in the last 12 months
- c. List of substations and substation equipment for the Crescent City region
- d. Records of the last two inspections done at each substation in the region
- e. Summary of work orders completed and open in the last 12 months
- f. Field verified 13 completed and 3 open work orders
- g. PacifiCorp's IR testing procedure
- h. PacifiCorp's battery load test and maintenance procedures

### II. Field Inspection

My staff inspected the following substations in the Crescent City region:

<b>Substation</b>	<b>Location</b>	<b>City</b>
Northcrest Substation	1054 Northcrest Drive	Crescent City
Belmont Substation	1510 Del Mar Road	Crescent City
Miller Redwood Substation	1500 Hamilton Road	Crescent City
Redwood Substation	851 Elk Valley Road	Crescent City
Del Norte Substation	6775 Highway 101	Crescent City
Smith River Substation	3051 South Fred D. Haight Drive	Smith River
Morrison Creek Substation	9843-9857 Highway 101	Smith River

### III. Field Inspection – Documented Violations List

We observed the following violations during our field inspection. These violations were documented and/or addressed by PacifiCorp during its last inspection:

**GO 174, Rule 12, General**, states in part:

*Substations shall be designed, constructed and maintained for their intended use, regard being given to the conditions under which they are to be operated, to promote the safety of workers and the public and enable adequacy of service.*

The oil temperature gauge for transformer R1608 at Belmont Substation was not working.

The insulators for switch 3R244 at Redwood Substation had significant moss overgrowth.

Regulator R-295 at Miller Redwood Substation was leaking oil.