

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



October 7, 2014

SA2014-007

Heide Casewell
Director, T&D Asset Performance
PacifiCorp
825 NE Multnomah St, Suite 1500
Portland, OR 97232

SUBJECT: Substation Audit of Pacific Corp in California Territory

Dear Ms. Casewell:

On behalf of the Electric Safety and Reliability Branch (ESRB) of the California Public Utilities Commission (CPUC), Jamie Lau and Raymond Cho of my staff conducted a substation audit of PacifiCorp's California territory from August 11 to 12, 2014. The audit included a review of the company's records and field inspections of its substation facilities.

During the audit, my staff identified violations of General Order 174. A copy of the audit findings itemizing the violations is enclosed. Please advise me no later than November 10, 2014, by electronic or hard copy, of all corrective measures taken by PacifiCorp to remedy and prevent such violations.

If you have any questions concerning this audit, please contact Jamie Lau at (415) 703-2233 or jamie.lau@cpuc.ca.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Fadi Daye".

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

Enclosure: Audit Findings

Cc: Elizaveta Malashenko, Deputy Director, Safety and Enforcement Division, CPUC
Charlotte TerKeurst, Program Manager, ESRB, CPUC
Alok Kumar, P.E., Senior Utilities Engineer Supervisor, ESRB, CPUC
Jamie Lau, P.E., Utilities Engineer, ESRB, CPUC
Raymond Cho, P.E., Utilities Engineer, ESRB, CPUC

Audit Findings

Company: PacifiCorp – California Territory

Substation Audit

Date: August 11 to 12, 2014

A.	Location:	Yreka Substation
	Equipment:	Overhead Transformer
	Previous Visit by PacifiCorp:	7/16/2014
	Date Visited by CPUC:	8/11/2014
Explanation of Violation(s):		
<u>Oil Leakage on Transformer</u>		
<p>GO 174, Rule 30.1, states in part:</p> <p style="text-align: center;"><i>Each Operator shall establish, update as needed, and follow an Inspection Program.</i></p> <p>PacifiCorp's Substation Inspection Form (Form #3274F), identifies any oil leaks as a condition to be documented during a monthly inspection.</p> <p>The transformer had oil leaks. This condition was not documented during the monthly inspection.</p>		

B.	Location:	Yreka Substation
	Equipment:	CB 3G95
	Previous Visit by PacifiCorp:	7/16/2014
	Date Visited by CPUC:	8/11/2014
Explanation of Violation(s):		
<p><u>Circuit Breaker Indicator Light Off</u></p> <p>GO 174, Rule 30.1, states in part:</p> <p style="text-align: center;"><i>Each Operator shall establish, update as needed, and follow an Inspection Program.</i></p> <p>PacifiCorp Quarterly Section Form (Form #3274F), identifies non-working circuit breaker indicating light as a condition to be documented during a quarterly inspection.</p> <p>The circuit breaker's indicating light was not working. This condition was not documented during the quarterly inspection.</p>		

C.	Location:	Yreka Substation
	Equipment:	Transformer "T-2255"
	Previous Visit by PacifiCorp:	7/16/2014
	Date Visited by CPUC:	8/11/2014
Explanation of Violation(s):		
<p><u>Malfunction Transformer Ventilation Fan</u></p> <p>GO 174, Rule 30.1, states in part:</p> <p style="text-align: center;"><i>Each Operator shall establish, update as needed, and follow an Inspection Program.</i></p> <p>PacifiCorp Quarterly Section Form (Form #3274F), identifies non-working transformer fan as a condition to be documented during a quarterly inspection.</p> <p>A transformer fan was not working. This condition was not documented during the quarterly inspection.</p>		

D.	Location:	Yreka Substation, Yreka
	Equipment:	Transformer "T-3376"
	Previous Visit by PacifiCorp:	7/16/2014
	Date Visited by CPUC:	8/11/2014
Explanation of Violation(s):		
<p><u>Malfunction Transformer Ventilation Fan</u></p> <p>GO 174, Rule 30.1, states in part:</p> <p style="text-align: center;"><i>Each Operator shall establish, update as needed, and follow an Inspection Program.</i></p> <p>PacifiCorp's Quarterly Section Form (Form #3274F), identifies non-working transformer fan as a condition to be documented during a quarterly inspection.</p> <p>A transformer fan was not working. This condition was not documented during the quarterly inspection.</p>		

E.	Location:	North Dunsmuir Substation, Dunsmuir
	Equipment:	Transformer "T-2770"
	Previous Visit by PacifiCorp:	7/9/2014
	Date Visited by CPUC:	8/12/2014
Explanation of Violation(s):		
<p data-bbox="228 552 1425 594"><u>Gauge Not Legible</u></p> <p data-bbox="228 625 719 667">GO 174, Rule 30.1, states in part:</p> <p data-bbox="358 699 1260 772"><i>Each Operator shall establish, update as needed, and follow an Inspection Program.</i></p> <p data-bbox="228 814 1386 856">PacifiCorp's Asset Management Policy 034, Substation Inspection, states in part:</p> <p data-bbox="358 888 1292 993"><i>Discrepancies or issues found during the performance of inspections may be corrected on site immediately, or noted on the inspection documentation and prioritized for later repair.</i></p> <p data-bbox="228 1035 1386 1140">The transformer gauge was not legible due to fading. This condition was noted in PacifiCorp's July 2014 quarterly inspection as "unacceptable", but no work order was created to address this issue.</p>		

F.	Location:	North Dunsmuir Substation, Dunsmuir
	Equipment:	Transformer "T-2771"
	Previous Visit by PacifiCorp:	7/9/2014
	Date Visited by CPUC:	8/12/2014
Explanation of Violation(s):		
<p data-bbox="228 554 527 590"><u>Gauge Not Legible</u></p> <p data-bbox="228 625 719 661">GO 174, Rule 30.1, states in part:</p> <p data-bbox="358 699 1260 774"><i>Each Operator shall establish, update as needed, and follow an Inspection Program.</i></p> <p data-bbox="228 812 1321 921">PacifiCorp's Quarterly Section Form (Form #3274F), identifies unacceptable transformer gauge condition as an item to be documented during a quarterly inspection.</p> <p data-bbox="228 959 1278 1035">The transformer gauge was not legible due to internal condensation. This condition was not documented during the quarterly inspection.</p>		