

## PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



October 20, 2014

EA2014-010

Todd Woolman  
Superintendent, Electric Department  
Healdsburg Electric Department  
550 Westside Road  
Healdsburg, CA 95448

**SUBJECT:** Audit of the Healdsburg Electric Department (HED)

Dear Mr. Woolman:

On behalf of the Electric Safety and Reliability Branch (ESRB) of the California Public Utilities Commission, Ivan Garcia and Raymond Cho of my staff conducted an electric audit of the Healdsburg Electric Department from May 27 - 30, 2014. The audit included a review of HED's records and field inspections of Healdsburg's facilities.

During the audit, we identified violations of one or more General Orders. A copy of the audit findings itemizing the violations is enclosed. Please advise me no later than November 20, 2014 by electronic or hard copy, of all corrective measures taken by HED to remedy and prevent such violations. In addition, we request that you provide us with the safety factor calculation for pole number M29-5.

If you have any questions concerning this audit please contact Raymond Cho at (415) 703-2236 or [raymond.cho@cpuc.ca.gov](mailto:raymond.cho@cpuc.ca.gov).

Sincerely,

A handwritten signature in dark 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, Safety and Enforcement Division, CPUC  
Raymond Cho, Utilities Engineer, ESRB  
Ivan Garcia, Utilities Engineer, ESRB

## AUDIT FINDINGS

**Company: Healdsburg Electric Department**  
**Electric Audit**  
**Date: May 27 - 30, 2014**

<b>A.</b>	<b>Location:</b>	<b>Healdsburg Electric Department</b>
	<b>Date Visited by CPUC:</b>	5/27/2014 – 5/30/2014
	<b>Explanation of Violation(s):</b>	
	<b><u>Missing Records</u></b>	
	<p>GO 165, Section III-C, – Record Keeping, states:</p> <p style="padding-left: 40px;"><i>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).</i></p> <p style="padding-left: 40px;"><i>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.</i></p> <p>HED did not keep any detailed inspection and patrol records for 2011.</p>	

<b>B.</b>	<b>Location:</b>	<b>Healdsburg Electric Department</b>
	<b>Date Visited by CPUC:</b>	5/27/2014 – 5/30/2014
	<b>Explanation of Violation(s):</b>	
	<p data-bbox="240 451 686 485"><b><u>Incomplete Inspection Cycles</u></b></p> <p data-bbox="240 525 1040 558">GO 165, Section III-B, – Standards for Inspection, states:</p> <p data-bbox="354 598 1256 779"><i>Each utility subject to this General Order shall conduct inspections of its distribution facilities, as necessary, to ensure reliable, high quality, and safe operation, but in no case may the period between inspections (measured in years) exceed the time specified in Table 1.</i></p> <p data-bbox="240 819 1276 890">For the 2009 and 2010 inspection cycles: 31 patrol inspections, 7 detailed inspections, and 24 intrusive inspections were not performed.</p>	

<b>C.</b>	<b>Location:</b>	<b>Healdsburg Electric Department</b>
	<b>Date Visited by CPUC:</b>	5/27/2014 – 5/30/2014
	<b>Explanation of Violation(s):</b>	
	<p><b><u>Late Inspection</u></b></p> <p>GO 165, Section III-B, – Standards for Inspection, states in part:</p> <p><i>Each utility subject to this General Order shall conduct inspections of its distribution facilities, as necessary, to ensure reliable high quality, and safe operation, but in no case may the period between inspections (measured in years) exceed the time specified in Table 1.</i></p> <p>Pole number N30-43 was identified on map N30, but was not inspected. The inspection map dated 1/15/14 contained a missing pole inspection.</p>	

The following violations were not documented and/or addressed by HED during its last detailed inspection as required by General Order 165:

<b>D.</b>	<b>Location:</b>	129 Ferrero Drive, Healdsburg
<b>Equipment No.:</b>		F43
<b>Previous Visit by HED:</b>		4/2/14
<b>Date Visited by CPUC:</b>		5/29/14
<b>Explanation of Violation(s):</b>		
<p><b><u>Identification of Cables, Securing Equipment, and Guarding Live Parts</u></b></p> <p>GO 128, Rule 34.3-A, Self-contained Surface-mounted Equipment - Strength, states in part:</p> <p style="padding-left: 40px;"><i>The equipment case or enclosure shall be secured in place and be of sufficient strength to resist entrance or damage to the equipment by unauthorized persons.</i></p> <p>GO 128, Rule 34.3-B, Self-contained Surface-mounted Equipment – Guarding Live Parts, states in part:</p> <p style="padding-left: 40px;"><i>“Compartments and enclosures which will, during normal operation, contain exposed live parts shall be designed and installed to prevent a person from passing a wire or other conducting material into such compartment from the outside when it is closed. This requirement is not intended to prevent normal work operations such as fishing ducts and installing cable.”</i></p> <p>The padmount was not secured down to the pad with proper hardware and was missing a lid bolt. This left a hole that will allow a person to pass a wire into the compartment.</p>		

E.	<b>Location:</b>	431 March Avenue, Healdsburg
<b>Equipment No.:</b>		O22
<b>Previous Visit by HED:</b>		1/21/14
<b>Date Visited by CPUC:</b>		5/29/14
<b>Explanation of Violation(s):</b>		
<b><u>Identification of Padmount and Securing Equipment</u></b>		
<p>GO 128, Rule 17.8, Identification of Manholes, Handholes, Subsurface and Self-contained Surface-mounted Equipment Enclosures, states in part:</p>		
<p style="padding-left: 40px;"><i>Manholes, handholes, subsurface and self-contained surface-mounted equipment enclosures shall be marked as to ownership to facilitate identification by persons authorized to work therein and by other persons performing work in their vicinity.</i></p>		
<p>GO 128, Rule 34.3-A, Self-contained Surface-mounted Equipment - Strength, states in part:</p>		
<p style="padding-left: 40px;"><i>The equipment case or enclosure shall be secured in place and be of sufficient strength to resist entrance or damage to the equipment by unauthorized persons.</i></p>		
<p>The identification label on the outside cover of the padmount was painted over and illegible. Also, the padmount was not secured down to the pad (bolted down).</p>		

F.	<b>Location:</b>	918 Chantecleer Way, Healdsburg
<b>Equipment No.:</b>		R29-10
<b>Previous Visit by HED:</b>		1/13/14
<b>Date Visited by CPUC:</b>		5/29/14
<b>Explanation of Violation(s):</b>		
<p><b><u>Deteriorated Pole Top</u></b></p> <p>GO 95, Rule 31.1, Design, Construction and Maintenance, states in part:</p> <p><i>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.</i></p> <p><i>For all particulars not specified in these rules, design, construction, and maintenance should be done in accordance with accepted good practice for the given local conditions known at the time by those responsible for the design, construction, or maintenance of communication or supply lines and equipment.</i></p> <p>The pole top at this location was deteriorated.</p>		

<b>G.</b>	<b>Location:</b>	1244 Chantecleer Way, Healdsburg
<b>Equipment No.:</b>		R29-24
<b>Previous Visit by HED:</b>		1/13/14
<b>Date Visited by CPUC:</b>		5/29/14
<b>Explanation of Violation(s):</b>		
<p><b><u>Sectionalizing Anchor Guys</u></b></p> <p>GO 95, Rule 56.7-B, Location of Sectionalizing Insulators – Anchor Guys, states in part:</p> <p><i>In order to prevent trees, buildings, messengers, metal–sheathed cables or other similar objects from grounding portions of guys above guy insulators, it is suggested that anchor guys be sectionalized, where practicable, near the highest level permitted by this Rule.</i></p> <p>The vegetation in this area was in contact with an anchor guy above the insulator.</p>		

H.	<b>Location:</b>	140 Powell Avenue, Healdsburg
<b>Equipment No.:</b>		N30-43
<b>Previous Visit by HED:</b>		1/15/14
<b>Date Visited by CPUC:</b>		5/29/14
<b>Explanation of Violation(s):</b>		
<p><b><u>High Voltage Signs</u></b></p> <p>GO 95, Rule 51.6-A, Marking and Guarding – High Voltage Marking, states in part:</p> <p><i>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. Such signs shall be of weather and corrosion-resisting material, solid or with letters cut out therefrom and clearly legible.</i></p> <p>The pole was not marked with "High Voltage" signs.</p>		

I.	<b>Location:</b>	412 Sherman Street, Healdsburg
<b>Equipment No.:</b>		O30-01
<b>Previous Visit by HED</b>		1/10/14
<b>Date Visited by CPUC:</b>		5/29/14
<b>Explanation of Violation(s):</b>		
<p><b><u>Ground Wire Covering</u></b></p> <p><u>GO 95, Rule 54.6-B, Ground Wires, states in part:</u></p> <p><i>That portion of the ground wires attached on the face or back of wood cross-arms or on the surface of wood poles and structures shall be covered by a suitable protective covering (see Rule 22.8).</i></p> <p>The ground wire moulding on the pole was broken.</p>		

J.	<b>Location:</b>	740 Brown Street, Healdsburg
<b>Equipment No.:</b>		O30-12
<b>Previous Visit by HED:</b>		1/10/14
<b>Date Visited by CPUC:</b>		5/29/14
<b>Explanation of Violation(s):</b>		
<p><b><u>High Voltage Signs</u></b></p> <p>GO 95, Rule 51.6-A, Marking and Guarding – High Voltage Marking, states in part:</p> <p><i>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. Such signs shall be of weather and corrosion-resisting material, solid or with letters cut out therefrom and clearly legible.</i></p> <p>The pole was not marked with "High Voltage" signs.</p>		

K.	<b>Location:</b>	433 Sherman Street, Healdsburg
<b>Equipment No.:</b>		O30-15
<b>Previous Visit by HED:</b>		1/10/14
<b>Date Visited by CPUC:</b>		5/29/14
<b>Explanation of Violation(s):</b>		
<p><b><u>High Voltage Signs</u></b></p> <p>GO 95, Rule 51.6-A, Marking and Guarding – High Voltage Marking, states in part:</p> <p><i>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. Such signs shall be of weather and corrosion-resisting material, solid or with letters cut out therefrom and clearly legible.</i></p> <p>The pole was not marked with "High Voltage" signs.</p>		

L.	<b>Location:</b>	816 Brown Street, Healdsburg
<b>Equipment No.:</b>		O30-22
<b>Previous Visit by HED:</b>		1/10/14
<b>Date Visited by CPUC:</b>		5/29/14
<b>Explanation of Violation(s):</b>		
<p><b><u>High Voltage Signs</u></b></p> <p>GO 95, Rule 51.6-A, Marking and Guarding – High Voltage Marking, states in part:</p> <p><i>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. Such signs shall be of weather and corrosion-resisting material, solid or with letters cut out therefrom and clearly legible.</i></p> <p>The pole was not marked with "High Voltage" signs.</p>		