

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



October 12, 2012

Dennis M. Schmidt
Electric Field Manager
Anaheim Public Utilities Department
Electric Systems Division
909 E. Vermont Ave.
Anaheim, CA 92805

EA2012-026

SUBJECT: Audit of the city of Anaheim's Public Utilities Department (APUD) – Electric System Division (ESD)

Dear Mr. Schmidt:

On behalf of the Electric Safety and Reliability Branch of the California Public Utilities Commission, Fadi Daye and Mahmoud Intably of my staff conducted an audit of Anaheim's Electric Distribution System from August 14, 2012, to August 17, 2012. The audit included a review of the city of Anaheim's records and field inspections of the city of Anaheim's electric facilities.

During the audit, my staff identified violations of one or more General Orders. A copy of the audit summary itemizing the violations is enclosed. Please advise me no later than November 16, 2012, by electronic or hard copy, of all corrective measures taken by APUD to remedy and prevent such violations.

If you have any questions, you can contact Mahmoud Intably at (213) 576-7016 or mahmoud.intably@cpuc.ca.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Stepanian", with a long horizontal flourish extending to the right.

Raffy Stepanian, P.E.
Program Manager
Electric Safety and Reliability Branch
Consumer Protection and Safety Division

Enclosure: Audit Summary

CC: Raymond Fugere, Program and Project Supervisor, CPUC

Audit Summary

Company: Anaheim Public Utilities Department (APUD) – Electric Systems Division (ESD)
Date of Electric Audit: August 14 – 17, 2012

1.	Location:	City of Anaheim
	Date of CPUC Inspection:	August 14-17, 2012
Explanation of Violation(s):		
<u>Records Review and Inspections</u>		
<p>GO 165, Section III-C: Record keeping, states in part:</p> <p style="text-align: center;"><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>APUD did not document the scheduled date of corrective action for violations discovered during its inspections.</p> <p>GO 165, Section III-D: Reporting, states in part:</p> <p style="text-align: center;"><i>By July 1st each utility subject to this General Order shall submit an annual report for the previous year under penalty of perjury.</i></p> <p>APUD did not submit an annual report to the CPUC.</p>		

2.	Structure ID / Location:	Pole No. 22260D
	Date of APUD overhead detailed inspection:	September 27, 2011
	Date of CPUC Inspection:	August 15, 2012
Explanation of Violation(s):		
<p data-bbox="191 590 500 621"><u>Riser Missing Support</u></p> <p data-bbox="191 663 1117 695">GO 95, Rule 31.1, Design, Construction and Maintenance, states in part:</p> <p data-bbox="248 737 1446 846"><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 data-bbox="191 888 1393 953">The pole supported a riser encased in a conduit that had loose brackets. This violation was not documented when APUD last inspected the pole.</p> <p data-bbox="191 995 578 1026"><u>Damaged High Voltage Sign</u></p> <p data-bbox="191 1068 943 1100">GO 95, Rule 51.6-A, High Voltage Marking, states in part:</p> <p data-bbox="248 1142 1455 1360"><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 data-bbox="191 1402 1446 1467">The pole supported conductors of more than 750 volts and had a damaged high voltage sign. This violation was not documented when APUD last inspected the pole.</p>		

3.	Structure ID / Location:	Pole No. 22261D
	Date of APUD last overhead detailed inspection:	September 27, 2011
	Date of CPUC Inspection:	August 15, 2012
Explanation of Violation(s):		
<u>Damaged Crossarm</u>		
<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>The pole supported a riser encased in a conduit that had loose brackets. This violation was not documented when APUD last inspected the pole.</p>		

4.	Structure ID / Location:	Pole No. 22262 D
	Date of APUD last overhead detailed inspection:	September 27, 2011
	Date of CPUC Inspection:	August 15, 2012
Explanation of Violation(s):		
<u>Pole Steps</u>		
<p>GO 95, Rule 91.3-A1, Pole with Vertical Runs or Risers, states in part:</p> <p><i>All jointly used poles which support supply conductors shall be provided with pole steps if vertical runs or risers are attached to the surface of such poles.</i></p> <p>The pole is a jointly used pole with an APUD riser attached to the surface of the pole. However, the pole was not stepped. This violation was not documented when APUD last inspected the pole.</p>		

5.	Structure ID / Location:	Pole No. 22263D
Date of APUD last overhead detailed inspection:		September 27, 2011
Date of CPUC Inspection:		August 15, 2012
Explanation of Violation(s):		
<p data-bbox="191 590 578 621"><u>Damaged High Voltage Sign</u></p> <p data-bbox="191 663 943 695">GO 95, Rule 51.6-A, High Voltage Marking, states in part:</p> <p data-bbox="250 737 1455 915"><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 data-bbox="191 957 1455 1031">The pole supported conductors of more than 750 volts and had a damaged high voltage sign. This violation was not documented when APUD last inspected the pole.</p> <p data-bbox="191 1073 561 1104"><u>Damaged Ground Molding</u></p> <p data-bbox="191 1146 833 1178">GO 95, Rule 54.6-B, Ground Wires, states in part:</p> <p data-bbox="250 1220 1430 1325"><i>That portion of the ground wire 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.)</i></p> <p data-bbox="191 1367 1455 1440">The pole had a ground wire attached to the surface of the pole with a damaged protective covering. This violation was not documented when APUD last inspected the pole.</p>		

6.	Structure ID / Location:	Pole No. 22264D
	Date of APUD last Underground detailed inspection:	September 27, 2011
	Date of CPUC Inspection:	August 15, 2012
Explanation of Violation(s):		
<p><u>Damaged Ground Molding</u></p> <p>GO 95, Rule 54-6-B, Ground Wires, states in part:</p> <p><i>That portion of the ground wire 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.)</i></p> <p>The pole had a ground wire attached to the surface of the pole with a damaged protective covering. This violation was not documented when APUD last inspected the pole.</p> <p><u>Damaged Riser Cover</u></p> <p>GO 95, Rule 54.6-E2, Covered from 8 Feet Above the Ground Level and Above, states in part:</p> <p><i>All risers from underground cables or other conductors which pass through an unrelated conductor or cable level shall be covered or encased by material as described in Rule 54.6-E1 or by a suitable protective covering as described in Rule 22.8.</i></p> <p>The pole had a damaged riser cover. This violation was not documented when APUD last inspected the pole.</p>		

7.	Structure ID / Location:	Pole No. 22274D
	Date of APUD last overhead detailed inspection:	September 27 2011
	Date of CPUC Inspection:	August 15, 2012
Explanation of Violation(s):		
<p data-bbox="191 590 578 621"><u>Damaged High Voltage Sign</u></p> <p data-bbox="191 663 943 695">GO 95, Rule 51.6-A, High Voltage Marking, states in part:</p> <p data-bbox="240 737 1482 915"><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 data-bbox="191 957 1446 1031">The pole supported conductors of more than 750 volts and had a damaged high voltage sign. This violation was not documented when APUD last inspected the pole.</p>		

8.	Structure ID / Location:	Pole No. 22275D
	Date of APUD last Underground detailed inspection:	September 27, 2011
	Date of CPUC Inspection:	August 15, 2012
	Explanation of Violation(s):	
	<p><u>Low Service Drop</u></p> <p>GO 95, Rule 54.8-B1, Above Public Thoroughfares, states in part:</p> <p><i>Service drop conductors shall have a vertical clearance of not less than 18 feet above public thoroughfares, except that this clearance may grade from 18 feet at a position not more than 12 feet horizontally from the curb line to a clearance of not less than 16 feet at the curb line.</i></p> <p>The pole supported a service drop with a ground clearance of less than 16 feet at the curb line. This violation was not documented when APUD last inspected the pole.</p>	

9.	Structure ID / Location:	Pole No. 11092D
Date of APUD last Underground detailed inspection:		April 2, 2012
Date of CPUC Inspection:		August 16, 2012
Explanation of Violation(s):		
<u>Damaged High Voltage Sign</u>		
<p>GO 95, Rule 51.6-A, 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 supported conductors of more than 750 volts and had a damaged high voltage sign. This violation was not documented when APUD last inspected the pole.</p>		
<u>Loose Guy Wire</u>		
<p>GO 95, Rule 56.2, Use, states in part:</p> <p><i>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.</i></p> <p>The pole had a loose guy wire. This violation was not documented when APUD last inspected the pole.</p>		
<u>Guy Wire Touching Communication Cables</u>		
<p>GO 95, Rule 38, Table 2, Case 19-C, requires the radial clearance between guy wire and communication cables attached to the same poles to be at least 3 inches. The guy wire was touching a communication cable. This violation was not documented when APUD last inspected the pole.</p>		

10.	Structure ID / Location:	Pole No. 11093D
	Date of APUD last Underground detailed inspection:	January 24, 2012
	Date of CPUC Inspection:	August 16, 2012
Explanation of Violation(s):		
<p><u>Damaged Ground Molding</u></p> <p>GO 95, Rule 54.6-B, Ground Wires, states in part:</p> <p><i>That portion of the ground wire 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.)</i></p> <p>The pole had a ground wire attached to the surface of the pole with a damaged protective covering. This violation was not documented when APUD last inspected the pole.</p> <p><u>Supply Service Drop Touching Communication Service Drop at the Point of Attachment</u></p> <p>GO 95, Rule 38, Table 2, Case 4-C, requires the radial clearance between supply service drop and communication service drop at the point of attachment to be at minimum 12 inches. The supply service drop and a communication service drop were touching at the weatherhead. This violation was not documented when APUD last inspected the pole.</p>		

11.	Structure ID / Location:	Pole No. 11094D
	Date of APUD last Underground detailed inspection:	January 24, 2012
	Date of CPUC Inspection:	August 16, 2012
	Explanation of Violation(s):	
	<p><u>Damage Ground Molding</u></p> <p>GO 95, Rule 54.6-B, Ground Wires, states in part:</p> <p><i>That portion of the ground wire 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.)</i></p> <p>The pole had a ground wire attached to the surface of the pole with a damaged protective covering. This violation was not documented when APUD last inspected the pole.</p>	

12.	Structure ID / Location:	Pole No. 11095D
	Date of APUD last overhead detailed inspection:	January 24, 2012
	Date of CPUC Inspection:	August 16, 2012
Explanation of Violation(s):		
<p data-bbox="188 581 578 615"><u>Damaged High Voltage Sign</u></p> <p data-bbox="188 655 943 688">GO 95, Rule 51.6-A, High Voltage Marking, states in part:</p> <p data-bbox="248 728 1455 909"><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 data-bbox="188 949 1445 1020">The pole supported conductors of more than 750 volts and had a damaged high voltage sign. This violation was not documented when APUD last inspected the pole.</p> <p data-bbox="188 1060 561 1094"><u>Damaged Ground Molding</u></p> <p data-bbox="188 1134 833 1167">GO 95, Rule 54.6-B, Ground Wires, states in part:</p> <p data-bbox="248 1207 1427 1314"><i>That portion of the ground wire 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.)</i></p> <p data-bbox="188 1354 1455 1425">The pole had a ground wire attached to the surface of the pole with a damaged protective covering. This violation was not documented when APUD last inspected the pole.</p>		

13.	Structure ID / Location:	Pole No. 13354D
	Date of APUD last overhead detailed inspection:	January 24, 2012
	Date of CPUC Inspection:	August 16, 2012
Explanation of Violation(s):		
<p data-bbox="188 581 578 615"><u>Damaged High Voltage Sign</u></p> <p data-bbox="188 655 943 688">GO 95, Rule 51.6-A, High Voltage Marking, states in part:</p> <p data-bbox="248 728 1455 909"><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 data-bbox="188 949 1443 1020">The pole supported conductors of more than 750 volts and had a damaged high voltage sign. This violation was not documented when APUD last inspected the pole.</p> <p data-bbox="188 1060 483 1094"><u>Abandoned Insulator</u></p> <p data-bbox="188 1134 737 1167">GO 95, Rule 31.6 Abandoned lines, states:</p> <p data-bbox="248 1207 1463 1352"><i>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.</i></p> <p data-bbox="188 1392 1359 1463">The pole had an abandoned insulator. This violation was not documented when APUD last inspected the pole.</p>		

14.	Structure ID / Location:	Pole No. 22259D
Date of APUD last overhead detailed inspection:		September 27, 2011
Date of CPUC Inspection:		August 16, 2012
Explanation of Violation(s):		
<p><u>Damaged High Voltage Sign</u> GO 95, Rule 51.6-A, 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 supported conductors of more than 750 volts and had a damaged high voltage sign. This violation was not documented when APUD last inspected the pole.</p> <p><u>Damaged Ground Molding</u> GO 95, Rule 54.6-B, Ground Wires, states in part:</p> <p><i>That portion of the ground wire 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.)</i></p> <p>The pole had a ground wire attached to the surface of the pole with a damaged protective covering. This violation was not documented when APUD last inspected the pole.</p> <p><u>Guy Wire Touching Communication Cables</u> GO 95, Rule 38, Table 2, Case 19-C, requires the radial clearance between guy wire and communication cables attached to the same poles to be at least 3 inches. The guy wire was touching a communication cable. This violation was not documented when APUD last inspected the pole.</p> <p><u>Damaged Riser Cover</u> GO 95, Rule 54.6-E2, Covered from 8 Feet Above the Ground Level and Above, states in part:</p> <p><i>All risers from underground cables or other conductors which pass through an unrelated conductor or cable level shall be covered or encased by material as described in Rule 54.6-E1 or by a suitable protective covering as described in Rule 22.8.</i></p> <p>The pole had a damaged riser cover. This violation was not documented when APUD last inspected the pole.</p>		

15.	Structure ID / Location:	Structure No.PM36755-RC1012
	Date of APUD last Underground detailed inspection:	January 24, 2012
	Date of CPUC Inspection:	August 16, 2012
Explanation of Violation(s):		
<p><u>Pad-mounted Transformer Not Bolted</u></p> <p>GO 128, Rule 34.3-A, Strength, states in part:</p> <p style="text-align: center;"><i>The equipment case or enclosure shall be secured in place and be of sufficient strength to resist entrance or damaged to the equipment by unauthorized persons.</i></p> <p>The pad-mounted transformer was not secured in place (bolted down.) This violation was not documented when APUD last inspected the structure.</p> <p><u>Pad-mounted Transformer had Opening</u></p> <p>GO 128, Rule 34.3-B, Guarding Live Parts, states in part:</p> <p style="text-align: center;"><i>Compartments and enclosure 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.</i></p> <p>The pad-mounted transformer had opening that would allow a person to pass a wire into the compartment from the outside when it is closed. This violation was not documented when APUD last inspected the structure.</p>		