EDMUND G. BROWN JR., Governor

EA2014-029

STATE OF CALIFORNIA

PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3298

January 20, 2015



Joe Awad Assistant General Manager of Power Delivery City of Pasadena 150 South Los Robles Avenue, Suite 200 Pasadena, CA 91101

SUBJECT: Electric Audit of Pasadena Water and Power

Dear Mr. Awad:

On behalf of the Electric Safety and Reliability Branch of the California Public Utilities Commission, Koko Tomassian of my staff conducted an electric audit of Pasadena Water and Power (PWP) from October 27, 2014 to October 31, 2014. The audit included a review of PWP's records and field inspections of PWP'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 February 20, 2015, by electronic or hard copy, of all corrective measures taken by PWP to remedy and prevent such violations.

If you have any questions, you can contact Koko Tomassian at (213) 576-7099 or koko.tomassian@cpuc.ca.gov.

Sincerely,

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Fadi Dave, 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, Electric Safety and Reliability Branch, CPUC

## AUDIT FINDINGS

The following violations were identified during the field inspection of the audit and were not documented and/or addressed by PWP during its last detailed inspection as required by General Order 165:

1.	Location:	Pole No.: 14580MP
	Previous PWP Visit Details:	October 8, 2014 – Overhead (OH) Detailed Inspection
	Date of CPUC Inspection:	October 28, 2014
	Explanation of Viola	tion(s):
	Vegetation in Contac	t with Primary Conductors
	service demand to establish ne in Table 1, Ca.	ad conductors traverse trees and vegetation, safety and reliability of d that certain vegetation management activities be performed in order cessary and reasonable clearances, the minimum clearances set forth ses 13 and 14, measured between line conductors and vegetation conditions shall be maintained.

2.	Location:	Pole No.: 9225MP	
	Previous PWP Visit Details:	October 8, 2014 – Overhead (OH) Detailed Inspection	
	Date of CPUC Inspection:	October 28, 2014	
	Explanation of Viola	tion(s):	
	Damaged/Missing Hi	igh Voltage Sign	
	Poles which support line conductors of more than 750 volts shall be marked with high voltage signs. The High Voltage sign on the crossarm was damaged.		
	Damaged Secondary	Pin	
	GO 95, Rule 31.1, De	sign, Construction and Maintenance, States in part:	
	maintained	upply and communication systems shall be designed, constructed, and for their intended use, regard being given to the conditions under are to be operated, to enable the furnishing of safe, proper, and rvice.	
000000000000000000000000000000000000000	The pole had a damag	ed secondary pin.	

3.	Location:	Pole No.: 2819MP	
	Previous PWP Visit Details:	October 18, 2014 – Overhead (OH) Detailed Inspection	
	Date of CPUC Inspection:	October 28, 2014	
	Explanation of Violation(s):		
	Vegetation in Contac	et with Primary Conductors	
	service deman to establish ne in Table 1, Ca	ad conductors traverse trees and vegetation, safety and reliability of d that certain vegetation management activities be performed in order cessary and reasonable clearances, the minimum clearances set forth ses 13 and 14, measured between line conductors and vegetation conditions shall be maintained.	
	GO 95, Table 1, Case 13, Column E requires the minimum radial clearance of supply conductors and supply cables between $750 - 22,500$ Volts from tree branches and foliage to be 18 inches.		
	A nalm frond was con	tacting primary supply cables.	

4.	Location:	Pole No.: 20259MP	
	Previous PWP Visit Details:	December 30, 2014 – Overhead (OH) Detailed Inspection	
	Date of CPUC Inspection:	October 28, 2014	
	Explanation of Violation(s):		
	Damaged Ground Molding		
	GO 95, Rule 54.6-B, Ground Wires, States in part:		
	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		
	The pole had damaged ground molding.		

•	Location:	Pole No.: 3142MP
	Previous PWP Visit Details:	December 30, 2014 - Overhead (OH) Detailed Inspection
	Date of CPUC Inspection:	October 28, 2014
	Explanation of Violation(s):	
	Climbing Space Obstructed	
	GO 95, Rule 54.7, Climbing and Working Space, States in part: Climbing space shall be maintained from the ground level. Climbing space, measured form the center line of pole, shall be provided on one side or one quadrant	
	of all poles or structures	
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6.	Location:	Pole No.: 630614H	
	Previous PWP Visit Details:	December 30, 2014 – Overhead (OH) Detailed Inspection	
	Date of CPUC Inspection:	October 28, 2014	
	Explanation of Viola	tion(s):	
	Climbing Space Obstructed		
	Where a communications company's or an electric utility' actions result in GO nonconformances for another entity, that entity's remedial action will be to transmit a single documented notice of identified nonconformances to the communications company or electric utility for compliance.		
	GO 95 Rule 54.7 Cli	mbing and Working Space, States in part:	
	Climbing space shall be maintained from the ground level. Climbing space, measured form the center line of pole, shall be provided on one side or one quadrant of all poles or structures		
		this pole was obstructed by communications cables. PWP did not notify the bany of this GO nonconformance when it last visited the pole.	

	Location:	Pole No.: 21030MP	
	Previous PWP Visit Details:	December 11, 2014 – Overhead (OH) Detailed Inspection	
	Date of CPUC Inspection:	October 28, 2014	
	Explanation of Violation(s):		
100000	Missing Guy Guard		
	<ul> <li>GO 95, Rule 56.9, Guy Marker (Guy Guard), States in part:</li> <li>A substantial marker of suitable material, including but not limited to metal or plastic, not less than 8 feet in length, shall be securely attached to all anchor guys.</li> <li>The pole supported a down guy wire which was not guarded with a substantial marker of suitable</li> </ul>		

8.	Location:	Pole No.: 6519MP
	Previous PWP Visit Details:	December 11, 2014 – Overhead (OH) Detailed Inspection
	Date of CPUC Inspection:	October 28, 2014
	Explanation of Violation(s):	
	Damaged/Missing High Voltage Sign	
	GO 95, Rule 51.6-A, High Voltage Marking, States in part: Poles which support line conductors of more than 750 volts shall be marked with high voltage signs.	

The High Voltage sign on the crossarm was damaged.

9.	Location:	Pole No.: 5172MP	
	Previous PWP Visit Details:	December 11, 2014 – Overhead (OH) Detailed Inspection	
	Date of CPUC Inspection:	October 28, 2014	
	Explanation of Violation(s):		
	Damaged/Missing High Voltage Sign		
	GO 95, Rule 51.6-A, High Voltage Marking, States in part: Poles which support line conductors of more than 750 volts shall be marked with high voltage signs.		

10.	Location:	Pole No.: 5717MP	
	Previous PWP Visit Details:	December 11, 2014 - Overhead (OH) Detailed Inspection	
	Date of CPUC Inspection:	October 28, 2014	
	Explanation of Violation(s):		
	Damaged and/or Broken "V-brace"		
	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.		
	The pole had a damaged and/or broken "V-brace" on the secondary crossarm.		

11.	Location:	Pole No.: V8286	
	Previous PWP Visit Details:	August 6, 2014 – Overhead (OH) Detailed Inspection	
	Date of CPUC Inspection:	October 29, 2014	
	Explanation of Violation(s):		
	Underground Vault Access Obstructed by Fence		
	<ul><li>they are to be operated, to enable the furnishing of safe, proper, and adequate service.</li><li>Access to the vault was obstructed by a third-party fenced perimeter with no access point.</li></ul>		
	Heavily Corroded Vault Lid		
	GO 128, Rule 35.2-A, Guarding Live Parts, states in part:		
	Live parts shall be enclosed, isolated, guarded, or insulated to prevent accidental contact.		
	The vault lid was heavily corroded and did not sufficiently enclose, isolate, or guard the contained live parts.		