

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



May 16, 2014

SA2014-003

Michael Palusso
Manager, T&S ISO/FERC Compliance RPPM/TDBU
Southern California Edison
3 Innovation Way, PIV 3, 3rd Floor
Pomona, California 91768

SUBJECT: Audit of SCE's Ventura County Substation Facilities

Dear Mr. Palusso:

On behalf of the Safety and Enforcement Division (SED) of the California Public Utilities Commission, Ben Brinkman and Derek Fong conducted an audit of Southern California Edison's (SCE's) electric substation facilities in Ventura County from March 10, 2014 to March 14, 2014. The audit included a review of SCE's maintenance records and inspections of SCE's facilities.

During the audit, we identified violations of General Order 174. A copy of the audit summary itemizing the violations is enclosed. In addition, we found that most of the findings noted by SCE during its inspections were not discovered by the actual inspectors, but by their supervisors during re-inspections. We are concerned that some potential hazards may not be captured by your inspectors during future inspections.

Please advise me no later than June 16, 2014, by electronic or hard copy, of all corrective measures taken by SCE to remedy and prevent such violations.

If you have any questions concerning this audit you can contact Derek Fong of my staff at (213) 576-6850 or derek.fong@cpuc.ca.gov.

Sincerely,

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

Fadi Daye, P.E.
Senior Utilities Engineer Supervisor
Electric Safety and Reliability Branch
Safety and Enforcement Division

Enclosure: Audit Summary

CC: Elizaveta Malashenko, Deputy Director, Safety and Enforcement Division, CPUC
Charlotte TerKeurst, Program Manager, Electric Safety and Reliability Branch, CPUC
Benjamin Brinkman, P.E., Senior Utilities Engineer, CPUC – LA

Audit Summary

Company: SCE
Location: Electric Substation System, Ventura County
Audit: Substation
Date: March 10, 2014 to March 14, 2014

Violations

1.	Structure ID / Location:	Fence, northwest corner, Camarillo Substation
	Previous SCE Visit Details:	March 1, 2014
	Date of CPUC Inspection:	March 10, 2014
Explanation of Violation(s):		
<p>Broken Strand on Ground Wire 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>SCE's Inspection Program Practice, Document 510.012, Section 4.2.1, states in part:</p> <p style="text-align: center;"><i>Corrective action, which requires attention, is turned in by the inspector as a result of an item identified in one of the above inspections.</i></p> <p>A fence ground wire had a broken strand. This violation was not noted or addressed when SCE last inspected the substation.</p>		

2.	Structure ID / Location:	Colonia Substation
	Previous SCE Visit Details:	March 1, 2014
	Date of CPUC Inspection:	March 10, 2014
Explanation of Violation(s):		
<p>Damaged Trench Cover 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>SCE's Inspection Program Practice, Document 510.012, Section 4.2.1, states in part:</p> <p style="text-align: center;"><i>Corrective action, which requires attention, is turned in by the inspector as a result of an item identified in one of the above inspections.</i></p> <p>A trench cover was damaged. This violation was not noted or addressed when SCE last inspected the substation.</p>		

Broken Fence Tension Cross Cables

GO 174, Rule 30.1, states in part:

Each Operator shall establish, update as needed, and follow an Inspection Program.

SCE's Inspection Program Practice, Document 510.012, Section 4.2.1, states in part:

Corrective action, which requires attention, is turned in by the inspector as a result of an item identified in one of the above inspections.

A fence tension cross cable was broken. This violation was not noted or addressed when SCE last inspected the substation.

4.	Structure ID / Location:	Montecito Substation
	Previous SCE Visit Details:	March 1, 2014
	Date of CPUC Inspection:	March 10, 2014
Explanation of Violation(s):		
<p><u>Transformer Oil Leak</u> GO 174, Rule 30.1, states in part:</p> <p style="padding-left: 40px;"><i>Each Operator shall establish, update as needed, and follow an Inspection Program.</i></p> <p>SCE's Inspection Program Practice, Document 510.012, Section 4.2.1, states in part:</p> <p style="padding-left: 40px;"><i>Corrective action, which requires attention, is turned in by the inspector as a result of an item identified in one of the above inspections.</i></p> <p>A No. 1 Bank 16/4 kV A phase transformer radiator fin had a pinhole leak. This violation was not noted or addressed when SCE last inspected the substation.</p> <p><u>Telephone not in Operation</u> GO 174, Rule 30.1, states in part:</p> <p style="padding-left: 40px;"><i>Each Operator shall establish, update as needed, and follow an Inspection Program.</i></p> <p>SCE's Inspection Program Practice, Document 510.012, Section 4.2.1, states in part:</p> <p style="padding-left: 40px;"><i>Corrective action, which requires attention, is turned in by the inspector as a result of an item identified in one of the above inspections.</i></p> <p>The substation emergency phone was not operational. This violation was not noted or addressed when SCE last inspected the substation.</p>		

5.	Structure ID / Location:	Channel Islands Substation
	Previous SCE Visit Details:	March 6, 2014
	Date of CPUC Inspection:	March 10, 2014
Explanation of Violation(s):		
<p><u>Qualitrol Unable to Operate Fans</u> 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>SCE's Inspection Program Practice, Document 510.012, Section 4.2.1, states in part:</p> <p style="text-align: center;"><i>Corrective action, which requires attention, is turned in by the inspector as a result of an item identified in one of the above inspections.</i></p> <p>A Qualitrol unit was unable to operate the fans on a transformer radiator. This violation was not noted or addressed when SCE last inspected the substation.</p>		

6.	Structure ID / Location:	Fillmore Substation
	Previous SCE Visit Details:	March 4, 2014
	Date of CPUC Inspection:	March 10, 2014
Explanation of Violation(s):		
<p data-bbox="237 478 623 510"><u>Damaged Insulator Skirts</u></p> <p data-bbox="237 514 712 546">GO 174, Rule 30.1, states in part:</p> <p data-bbox="370 583 1268 655"><i>Each Operator shall establish, update as needed, and follow an Inspection Program.</i></p> <p data-bbox="237 695 1446 726">SCE's Inspection Program Practice, Document 510.012, Section 4.2.1, states in part:</p> <p data-bbox="370 766 1235 873"><i>Corrective action, which requires attention, is turned in by the inspector as a result of an item identified in one of the above inspections.</i></p> <p data-bbox="237 915 1520 1056">Three insulator skirts on the Saugus No. 2 66 kV line disconnect for Circuit Breaker 88 and one insulator skirt on the Saugus No. 1 66 kV line disconnect for Circuit Breaker 44 were damaged. This violation was not noted or addressed when SCE last inspected the substation.</p> <p data-bbox="237 1098 573 1129"><u>Missing Trench Cover</u></p> <p data-bbox="237 1134 712 1165">GO 174, Rule 30.1, states in part:</p> <p data-bbox="370 1205 1268 1276"><i>Each Operator shall establish, update as needed, and follow an Inspection Program.</i></p> <p data-bbox="237 1316 1446 1348">SCE's Inspection Program Practice, Document 510.012, Section 4.2.1, states in part:</p> <p data-bbox="370 1388 1235 1495"><i>Corrective action, which requires attention, is turned in by the inspector as a result of an item identified in one of the above inspections.</i></p> <p data-bbox="237 1535 1463 1604">A trench cover near TIE CB 77 was missing. This violation was not noted or addressed when SCE last inspected the substation.</p>		

7.	Structure ID / Location:	Royal Substation
	Previous SCE Visit Details:	March 4, 2014
	Date of CPUC Inspection:	March 10, 2014
Explanation of Violation(s):		
<p>Bird Nest 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>SCE's Inspection Program Practice, Document 510.012, Section 4.2.1, states in part:</p> <p style="text-align: center;"><i>Corrective action, which requires attention, is turned in by the inspector as a result of an item identified in one of the above inspections.</i></p> <p>There was a bird nest on the No. 2 bank 66 kV bank disconnect. This violation was not noted or addressed when SCE last inspected the substation.</p>		