

## PUBLIC UTILITIES COMMISSION

15 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



December 1, 2010

Melvin Stark  
Manager, Maintenance & Inspection  
Southern California Edison  
2885 W. Foothill Blvd.  
Rialto, CA 92376

EA2010-11

**SUBJECT:** Electric Audit of SCE's Santa Ana District

Dear Mr. Stark:

On behalf of the Utilities Safety and Reliability Branch of the California Public Utilities Commission, I conducted an Electric Audit of Southern California Edison's (SCE) Santa Ana District from November 15 - 19, 2010. The audit included a review of SCE's records and field inspections of SCE's facilities that had been recently inspected by SCE staff.

During the audit, I identified violations of General Orders (GO) 95 and 165. A copy of the inspection summary itemizing the violations is enclosed. Please advise me no later than January 5, 2011, by electronic or hard copy, of all corrective measures taken by SCE to remedy and prevent such violations.

If you have any questions, you can contact me at (213) 576-6850.

Sincerely,

A handwritten signature in cursive script that reads "Derek Fong".

Derek Fong  
Utilities Engineer  
Utilities Safety and Reliability Branch  
Consumer Protection and Safety Division

Enclosure: Audit Summary

Cc: John Deng, Technical Specialist 3, SCE, Santa Ana  
Moses Varela, Manager, Program Contract 3, SCE, Ventura

## AUDIT SUMMARY

**Company: SCE – Santa Ana District**  
**Electric Audit**  
**Date: November 15 – 19, 2010**

The following violations were observed:

1. **GO 95, Rule 54.8C(4): Above or below Supply Service Drops**

*“The radial clearance between communication service drop conductors and supply service drop conductors may be less than 48 inches as specified in Table 2, Column C, Cases 4 and 9; Column D, Cases 3 and 8, but shall be not less than 24 inches. Where within 15 feet of the point of attachment of either service drop on a building, this clearance may be further reduced but shall be not less than 12 inches”.*

Pole 1405369E – an SCE service drop had less than a 24 inch separation from a communication conductor 15 feet from the point of attachment. This was not documented by SCE when it inspected the pole on 05/3/10.

2. **GO 95, Rule 54.6B: Ground Wires**

*“... That portion of the ground wire attached to 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).”*

Pole 1092680E had damaged ground moulding. This was not documented by SCE when it inspected the pole on 02/19/10.

3. **GO 95, Rule 38: Minimum Clearances of Wires from other Wires**

*Table 2, Case 19, Column C requires that the radial separation between guy wires and communication conductors supported on the same poles be at least 3 inches.*

- 1) Pole 2340847E – an SCE down guy wire was in contact with a communication conductor. This was not documented by SCE when it inspected the pole on 3/12/10.
- 2) Pole 655102H – an SCE down guy wire was in contact with a communication conductor. This was not documented by SCE when it inspected the pole on 3/15/10.
- 3) Pole 1088515E – an SCE down guy wire had less than a 3” radial separation from a communication conductor. This was not documented by SCE when it inspected the pole on 2/19/10.

4. **GO 95, Rule 38: Minimum Clearances of Wires from other Wires**

*Table 2, Case 19, Column D requires that the radial separation between guy wires and 0 – 750V service drops supported on the same poles be at least 3 inches.*

Pole 2243062E – an SCE service drop had less than a 3” radial clearance from a down guy wire. This was not documented by SCE when it inspected the pole on 5/3/10.

5. **GO 95, Rule 51.6A: High Voltage Marking**

*“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 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”.*

- 1) Pole 403353E had a damaged high voltage sign. This was not documented by SCE when it inspected the pole on 3/15/10.
- 2) Pole 1334670E had a damaged high voltage sign. This was not documented by SCE when it inspected the pole on 3/15/10.

6. **GO 95, Rule 54.7: Climbing and Working Space**

*“Climbing space shall be maintained from the ground level. Climbing space, measured from the center line of pole, shall be provided on one side or in one quadrant of all poles or structures ...”*

- 1) Pole 1211842E had trees in the climbing space. This was not documented by SCE when it inspected the pole on 2/19/10.
- 2) Pole 1234568E had a ground wire in the climbing space that was not suitably covered. This was not documented by SCE when it inspected the pole on 5/3/10.
- 3) Pole 1211833E had two ground wires in the climbing space. This was not documented by SCE when it inspected the pole on 2/18/10.

Each of the following poles did not have a climbing space. SCE staff indicated that communication facilities were installed on what they considered to be the climbing space; however, SCE did not notify the communication companies that their facilities were installed in the climbing space.

- 4) Pole 1269920E. This was not documented by SCE when it inspected the pole on 4/23/10.
- 5) Pole 655106H. This was not documented by SCE when it inspected the pole on 3/15/10.
- 6) Pole 4017763E. This was not documented by SCE when it inspected the pole on 3/15/10.

- 7) Pole 1330343E. This was not documented by SCE when it inspected the pole on 3/15/10.
- 8) Pole 178228E. This was not documented by SCE when it inspected the pole on 5/3/10.
- 9) Pole 1419623E. This was not documented by SCE when it inspected the pole on 4/23/10.
- 10) Pole 1211850E. This was not documented by SCE when it inspected the pole on 2/19/10.
- 11) Pole 1212401E. This was not documented by SCE when it inspected the pole on 2/19/10.

**7. GO 165, Section IV – Standards for Inspection, Record-keeping, and Reporting, states:**

*“For all inspections, within a reasonable period, company records shall specify the circuit, area, or equipment inspected, the name of the inspector, the date of the inspection, and any problems identified during each inspection, as well as the scheduled date of corrective action.”*

During the audit, I identified 1466 work orders, from 2007 to 2010, that were completed late.