State of California – A Natural Resources Agency
Gavin Newsom, Governor

**OFFICE OF ENERGY INFRASTRUCTURE SAFETY**
715 P Street, 20th Floor | Sacramento, CA 95814
916.902.6000 | *www.energysafety.ca.gov*

Caroline Thomas Jacobs, Director

February 24, 2022 NOD_SCE_ATJ_20211130-01

**TRANSMITTED VIA ELECTRONIC MAIL**

February 24, 2022

Erik Takayesu NOD_SCE_ATJ_20211130-01

Vice President Asset Strategy and Planning

Southern California Edison

2244 Walnut Grove

Rosemead, CA 91770

# NOTICE OF DEFECT

Mr. Takayesu,

Pursuant to Government Code § 15475.1, the Office of Energy Infrastructure Safety (Energy Safety) has completed a compliance assessment of Southern California Edison (SCE) and determined the existence of one or more defects. In accordance with Government Code § 15475.2 and the California Code of Regulations, Title 14, Division 17 § 29302(b)(2), a deficiency, error, or condition increasing the risk of ignition posed by electrical lines and equipment is considered a defect.

Anthony Trujillo, Energy Safety staff, conducted a walking inspection in Ventura County on November 30, 2021, and discovered the following defect(s):

1. Defect 1: Pole numbered 1561562E had a loose guy wire. The primary purpose of a guy wire is to provide stability to a structure (e.g., a pole) where imbalanced loads are present. To provide this stability a guy wire must be maintained taut. A loose guy wire increases the risk of structure failure and potential ignition under adverse weather conditions, as the guy wire can no longer serve its intended purpose of balancing an imbalanced load. Energy Safety considers this defect to be in the Minor risk category.

In accordance with the Energy Safety Compliance Process, outlined in Table 1 below are the correction timelines for identified defects relative to their risk category. Within 30 days from the issuance date of this notice of defect (NOD), March 28, 2022, advise Energy Safety of corrective actions taken or planned by SCE to remedy the above identified defect(s) and prevent recurrence.

February 24, 2022 NOD_SCE_ATJ_20211130-01

This response shall be filed in the Energy Safety e-Filing system under the 2021-NOD docket and the associated file name(s) must begin with the NOD identification number provided above.

*Table 1 Energy Safety Defect Correction Timeline by Risk Category*

| Risk Category | Violation and defect correction timeline |
|---|---|
| Severe | • Immediate resolution |
| Moderate | • 2 months (in HFTD Tier 3)<br>• 6 months (in HFTD Tier 2)<br>• 6 months (if relevant to worker safety; not in HFTD Tier 3) |
| Minor | • 12 months or resolution scheduled in WMP update |

Pursuant to Government Code § 15475.4(b), this NOD is served electronically, and SCE may request a hearing to take public comment or present additional information. Per statute, the deadline to request a hearing is within 30 days from the issuance date of this NOD – March 28, 2022. If a petition for hearing is not received by the deadline, then the determination and conditions set forth in this NOD become final.

Pursuant to Public Utilities Code § 8389(g), following receipt of SCE's response to this NOD and resolution of any disputes, this matter may be referred to the California Public Utilities Commission (CPUC) for its consideration of potential enforcement action, as the CPUC deems appropriate.

Sincerely,

Koko Tomassian
Compliance Program Manager
Compliance Assurance Division
Office of Energy Infrastructure Safety

Cc:
Gary Chen, SCE
Elizabeth Leano, SCE
Diana Gallegos, SCE
Melissa Semcer, Energy Safety
Edward Chavez, Energy Safety
Anthony Trujillo, Energy Safety

# Energy Safety Inspection Report

CALIFORNIA
OFFICE OF ENERGY
INFRASTRUCTURE
SAFETY

# Table of Contents

Report Name: ATJ_SCE_20211130-01
Date(s): November 30, 2021
Inspector: Anthony Trujillo
Utility: Southern California Edison
Attention: Erik Takayesu, Vice President Asset Strategy and Planning

# I. BACKGROUND

While wildfires are a natural part of California's ecosystem, the “fire season” in California and throughout the West is beginning and finishing earlier and later each year. Climate change and drought are believed to be a major contributor to this unsettling pattern. Utility-ignited wildfires are also a significant contributor to the wildfire risk in the Golden State, as this ignition cause category represents a disproportionate amount of the largest and most destructive fires in state history. Consequently, the Office of Energy Infrastructure Safety (Energy Safety) was established per the California Energy Infrastructure Safety Act (Government Code Sections 15470 – 15476) with the primary purpose of ensuring electrical corporations are reducing wildfire risk and complying with energy infrastructure safety measures. One such method for Energy Safety meeting its objective is to conduct detailed visual inspections of electrical infrastructure.

Inspections are carried out by Energy Safety’s Compliance Division on a regular basis to verify the work performed by utilities, as reported in approved wildfire mitigation plans (WMPs) or subsequent filings and assess general conditions of electrical infrastructure that may adversely impact an electrical corporation’s wildfire risk. Accordingly, Energy Safety inspections are distinguished into two lines of effort. Inspections related to an electrical corporation’s execution of its WMP initiatives is referred to as “WMP Initiative Inspections,” findings of which are detailed in Table 2. Issues discovered during these inspections are categorized as violations and are accompanied by a notice of violation (NOV). In addition to assessing compliance with WMP initiatives, Energy Safety inspectors also visually assess the electrical infrastructure and surrounding vegetation to determine whether conditions are present which increase an electrical corporation’s ignition and wildfire risk. These inspections are referred to as “General Wildfire Safety Inspections” and findings are detailed in Table

3 below. Issues discovered during these inspections are categorized as defects and are accompanied by a notice of defect (NOD).

This report details the findings of a recent Energy Safety inspection.

***Section 15475.1. of the Government Code states that:***

*(a) The office may determine that a regulated entity is not in compliance with any matter under the authority of the office. If necessary, the office may undertake an investigation into whether the regulated entity is noncompliant with its duties and responsibilities or has otherwise committed violations of any laws, regulations, or guidelines within the authority of the office.*
*(b) The office's primary objective is to ensure that regulated entities are reducing wildfire risk and complying with energy infrastructure safety measures as required by law.*

On November 30, 2021, I performed a walking inspection of Southern California Edison (SCE) covered conductor installations, 2021 WMP initiative number 7.3.3.3.1, in the cities of Fillmore and Santa Paula, California. Detailed findings from this field inspection are laid out in Section II below.

# II. RESULTS

In accordance with Energy Safety's Wildfire Mitigation Plan Compliance Process, violations and defects discovered by Energy Safety must be corrected in a timely manner. The timeline for corrective action is dependent on the risk category, location, and potential impact to worker safety of the violation or defect discovered. Risk categories range from severe to minor, and locational risks are determined with tier levels in the California Public Utility Commission's High Fire Threat District (HFTD) map. Table 1 below outlines violation and defect risk categories and their associated correction timelines. The correction timelines identified below apply to the results of both WMP initiative inspections as well as general wildfire safety inspections.

## **Table 1**. Risk Category and Correction Timelines

| Risk Category | Violation and defect correction timeline |
|---|---|
| Severe | • Immediate resolution |
| Moderate | • 2 months (in HFTD Tier 3)<br>• 6 months (in HFTD Tier 2)<br>• 6 months (if relevant to worker safety; not in HFTD Tier 3) |
| Minor | • 12 months or resolution scheduled in WMP update |

## **Table 2**. WMP Initiative Inspections

| Item | Structure ID | HFTD | Initiative Number | Violation Type | Severity | Violation Description |
|---|---|---|---|---|---|---|
| 1 | 463639E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install vibration dampers on a span |
| 2 | 929077E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Six porcelain insulators on guy wire not updated to fiberglass strain insulators where covered conductor terminates |
| 3 | 929077E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install vibration dampers on a span |
| 4 | 929076E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install vibration dampers on a span |
| 5 | 929076E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install fiberglass strain insulator on guy wire |
| 6 | 4094275E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install vibration dampers on a span |
| 7 | 4094276E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install vibration dampers on a span |
| 8 | 4094277E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install vibration dampers on a span |
| 9 | 4094278E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install vibration dampers on a span |

| Item | Structure ID | HFTD | Initiative Number | Violation Type | Severity | Violation Description |
|---|---|---|---|---|---|---|
| 10 | 4094278E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install fiberglass strain insulator on guy strain wire |
| 11 | 4157910E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install vibration dampers |
| 12 | 4157910E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install fiberglass strain insulator on guy strain wire |
| 13 | 4944416E | Tier 3 | 7.3.3.3.1 | Data Accuracy | Minor | Data submitted by SCE is inaccurate and indicates covered conductor work terminates one span to the East. Covered conductor terminates at this pole. |
| 14 | 4944416E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install fiberglass strain insulator on guy strain wire |
| 15 | 4944416E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install vibration dampers on a span |
| 16 | 4089206E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install vibration dampers on a span |
| 17 | 1025312E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install vibration dampers on a span |
| 18 | 1025312E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install fiberglass strain insulator on guy strain wire |
| 19 | 1025313E | Tier 3 | 7.3.3.3.1 | Adherence to Protocol | Minor | Failure to install vibration dampers on a span |

## **Table 3.** General Wildfire Safety Inspections

| Item | Structure ID | HFTD | Defect Type | Severity | Defect Description |
|---|---|---|---|---|---|
| 1 | 1561562E | Tier 3 | Down guy wire loose | Minor | Loose guy wire |

# III. DISCUSSION

In its 2021-Q2 quarterly data report (QDR) submission on August 1, 2021, SCE provided initiative data indicating that covered conductor installation projects (2021 WMP initiative number 7.3.3.3.1) in Santa Paula and Fillmore were completed. This QDR submission represented the reporting period of April through June (i.e., Q2) 2021. Based on this information received from SCE, Energy Safety planned an inspection of select structures in these areas to assess the accuracy of SCE data, the completeness of SCE's work, and whether SCE followed its protocols for covered conductor installation. Upon arriving to the inspection location in Fillmore, Energy Safety observed that the covered conductor work was reported as terminating at the pole numbered 1832050E but instead terminated one span further at the pole numbered 4944416E. This data accuracy violation is noted in Table 2 above.

In accordance with SCE's protocols for covered conductor installation, Distribution Overhead Construction Standards (DOH) PO section 300, SCE states, "In HFRA installations of covered conductor it is required to upgrade down guy/span guy insulation to include Fiberglass Guy Strain Insulators."[1] In addition, SCE's Distribution Design Standards (DDS), section DDS-10 indicates that, "Beginning July 2020, SCE has transitioned to a standard requirement in guying to utilize the fiberglass guy strain insulators where traditional porcelain guy strain insulators have been applied."[2] Further, in response to Energy Safety Data Request (DR-030), SCE stated "In HFRA installations of covered conductor it is required to… upgrade down guy/span guy installation to include Fiberglass Guy Strain Insulators."[3] During the inspection, Energy Safety found several instances where fiberglass guy wire strain insulators were not installed where covered conductor work was completed, per SCE's protocols. Structures where this protocol was not followed are noted in Table 2 above.

Per SCE's DDS and DOH, when installing covered conductor, vibration dampers must also be installed.[4] Energy Safety staff found that vibration dampers were not installed at multiple structures

[1] DOH PO section 300, page 3 of 9
[2] DDS section DDS-10, page 10-26
[3] Data Request Set (Energy Safety DR-030), Question 3, ES-SCE-CC Protocols (see Appendix B)
[4] DOH CC section 190, DDS section DDS-10, page 10-82

where covered conductor was completed. The structures missing vibration dampers where covered conductor was installed are identified in Table 2 above. On November 19, 2021, SCE submitted a memo to Energy Safety titled, "Interim Deviation from Standards on Vibration Damper for Covered Conductor"[5] (hereafter, “Memo”). This Memo was dated August 18, 2021, and indicates that due to supply chain issues, SCE will suspend the installation of vibration dampers until December 31, 2021. In accordance with SCE’s Q2 QDR submission, the covered conductor installations inspected by Energy Safety were completed prior to the issuance of the Memo. Also, SCE informed Energy Safety of this supply chain issue only after inspections commenced. Consequently, Energy Safety finds that SCE is still in violation of its protocols requiring the installation of vibration dampers as part of covered conductor installations.

In addition to the violations discovered during WMP inspections of SCE’s covered conductor installations, Energy Safety discovered one structure that had a loose guy wire. Energy Safety considers loose guy wires as a condition that increases an electrical corporation’s ignition risk because the primary purpose of a guy wire is to provide stability to a structure (e.g., a pole) where imbalanced loads are present. If a guy wire is loose and not maintained taut, it cannot serve its intended purpose of balancing load and adding stability, thus increasing the risk of structure failure and potential ignition under adverse weather conditions. The structure where a loose guy wire was observed is identified in Table 3.

# IV. CONCLUSION

Pursuant to its objectives and statutory obligations, Energy Safety has completed the above referenced inspection and discovered violations and/or defects by Southern California Edison. Southern California Edison’s required response to these non-compliances and options for hearing are detailed in the associated notice of violation and/or defect, respectively.

[5] **Interim Deviation from Standards on Vibration Damper for Covered Conductor (see Appendix B)**

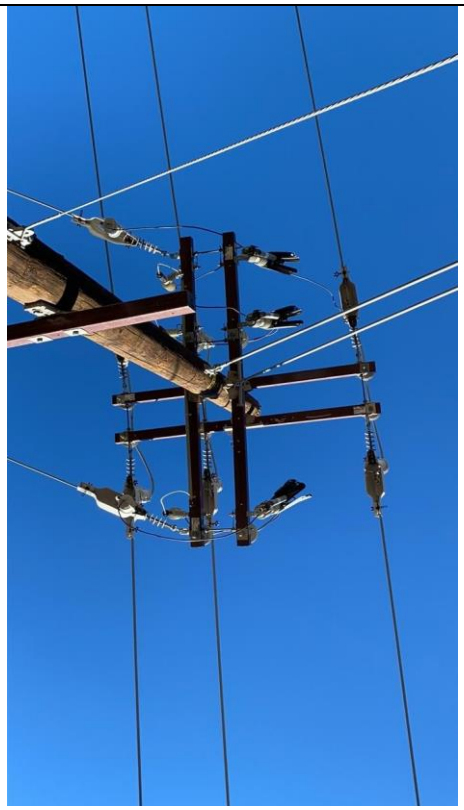
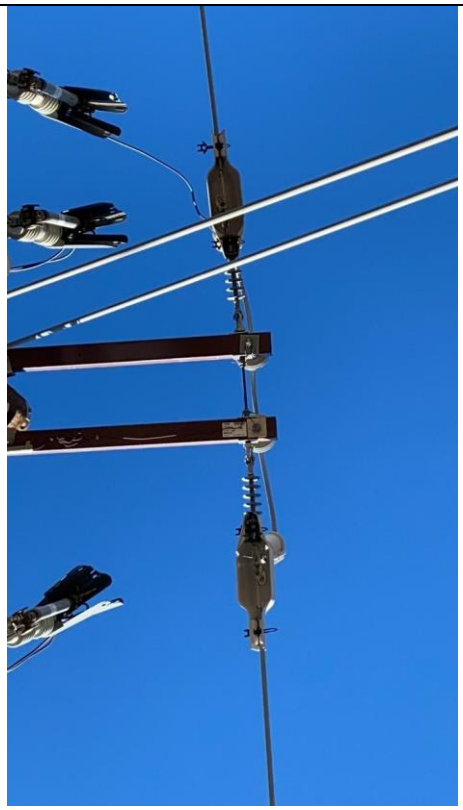
# V. APPENDICES

APPENDIX A: Photo Log

**Structure ID:** 463639E
General Photo

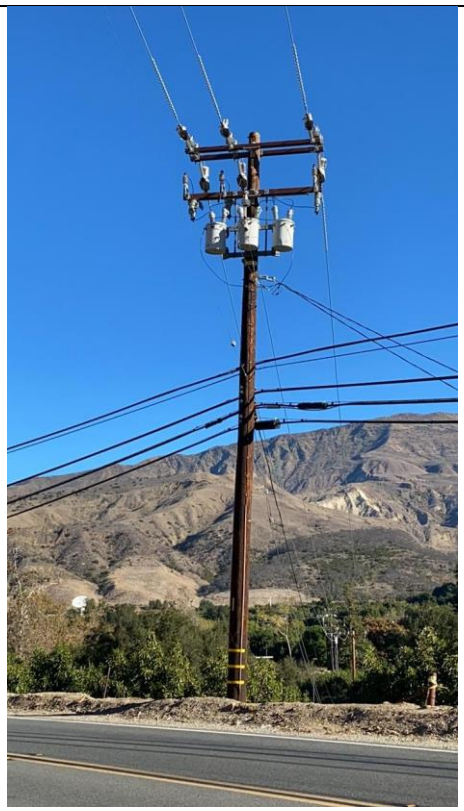
| | |
|---|---|
|  |  |
| **Item1GImg1**: Overall pole | **Item1GImg2**: Pole ID |

Initiative Activity #1 Photo

| | |
|---|---|
|  |  |
| **Item1IA1Img1**: Vibration dampers not installed | **Item1IA1Img2**: Close up, no vibration dampers installed |

**Structure ID:** 1561562E

General Photo

| | |
|---|---|
|  |  |
| **Item2GImg1**: Overall pole | **Item2GImg2**: Pole ID |

Guy Wire Question #1 Photo

| | |
|---|---|
|  | |
| **Item2GW1Img1**: Overview of pole with loose down guy wire | |

**Structure ID:** 247535E

General Photo

| | |
|---|---|
|  |  |
| **Item3GImg1**: Overall pole | **Item3GImg2**: Pole ID |

**Structure ID:** 247536E

General Photo

| | |
|---|---|
|  | |
| **Item4GImg1**: Overall pole | |
|  | |
| **Item4GImg3**: Pole ID | |

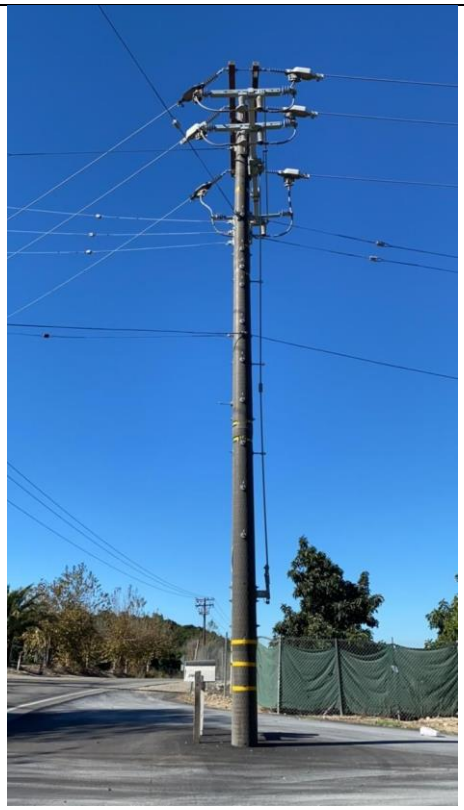
**Structure ID:** 247537E

General Photo

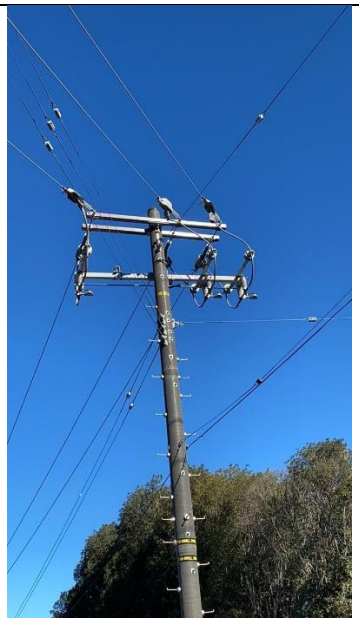
| | |
|---|---|
|  |  |
| **Item5GImg1**: Overall pole | **Item5GImg2**: Pole ID |

**Structure ID:** 929077E

General Photo

| | |
|---|---|
|  |  |
| **Item6GImg1**: Overall pole | **Item6GImg2**: Pole ID |

Initiative Activity #1 Photo

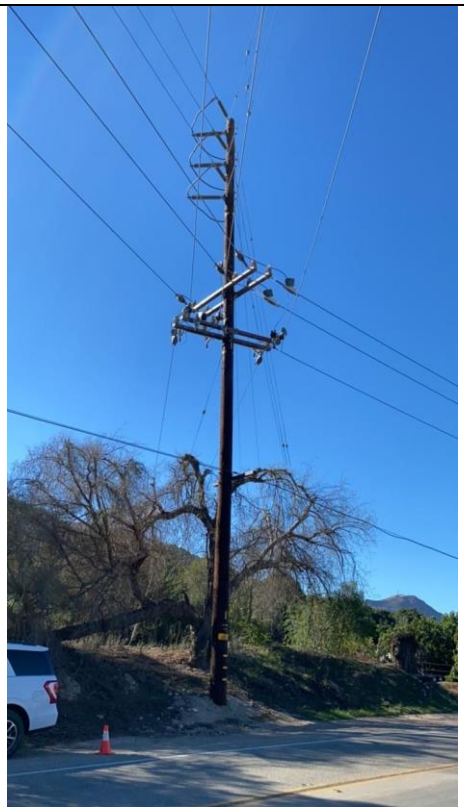
| | |
|---|---|
|  |  |
| **Item6IA1Img1**: Overall of 6 guy spans with porcelain insulators | **Item6IA1Img2**: Close up of 3 guy spans with porcelain insulators |

Initiative Activity #2 Photo

| | |
|---|---|
|  | |
| **Item6IA2Img1**: Vibration dampers not installed | |

**Structure ID:** 929076E

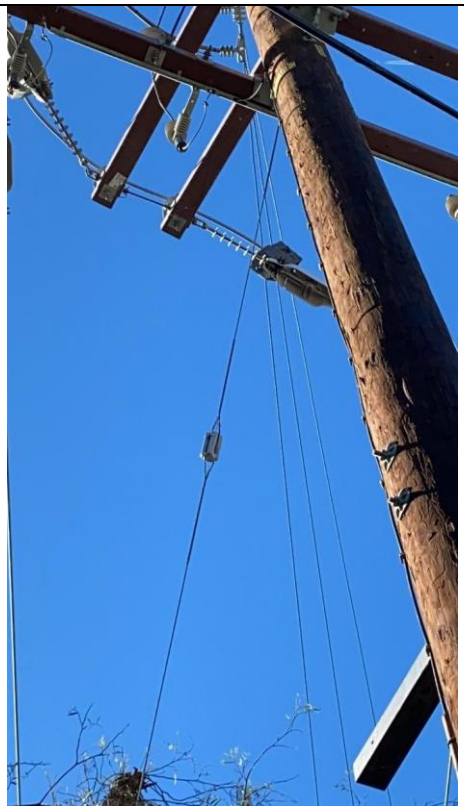
General Photo

| | |
|---|---|
|  |  |
| **Item7GImg1**: Overall pole | **Item7GImg2**: Pole ID |

Initiative Activity #1 Photo

| | |
|---|---|
|  | |
| **Item7IA1Img1**: Vibration dampers not installed | |

Initiative Activity #2 Photo

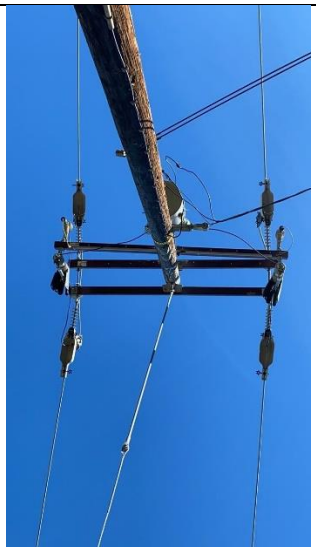
| | |
|---|---|
|  | |
| **Item7IA2Img1**: : Fiberglass down guy wire insulator not installed | |

**Structure ID:** 4094275E

General Photo

| | |
|---|---|
|  |  |
| **Item8GImg1**: Overall pole | **Item8GImg2**: Pole ID |

Initiative Activity #1 Photo

| | |
|---|---|
|  | |
| **Item8IA1Img1**: Vibration dampers not installed | |

**Structure ID:** 4094276E

General Photo

| | |
|---|---|
|  |  |
| **Item9GImg1**: Overall pole | **Item9GImg2**: Pole ID |

Initiative Activity #1 Photo

| | |
|---|---|
|  | |
| **Item9IA1Img1**: Vibration dampers not installed | |

**Structure ID:** 4094277E

General Photo

| | |
|---|---|
|  |  |
| **Item10GImg1**: Overall pole | **Item10GImg2**: Pole ID |

Initiative Activity #1 Photo

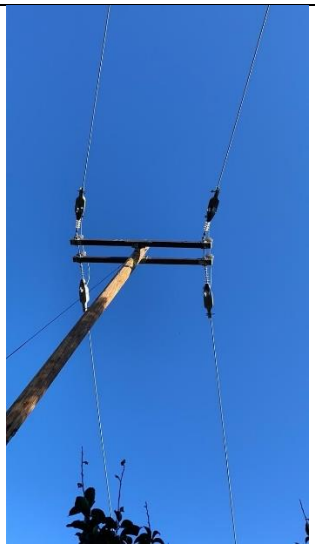
| | |
|---|---|
|  | |
| **Item10IA1Img1**: Vibration dampers not installed | |

**Structure ID:** 4094278E

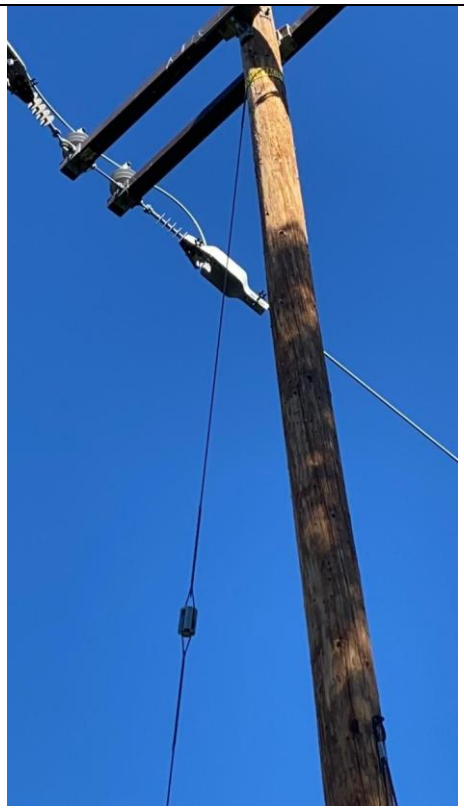
General Photo

| | |
|---|---|
|  |  |
| **Item11GImg1**: Overall pole | **Item11GImg2**: Pole ID |

Initiative Activity #1 Photo

| | |
|---|---|
|  | |
| **Item11IA1Img1**: Vibration dampers not installed | |

Initiative Activity #2 Photo

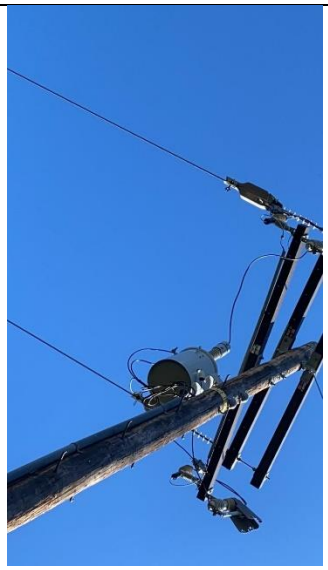
| | |
|---|---|
|  | |
| **Item11IA2Img1**: Fiberglass down guy wire insulator not installed | |

**Structure ID:** 4157910E

General Photo

| | |
|---|---|
|  |  |
| **Item12GImg1**: Overall pole | **Item12GImg2**: Pole ID |

Initiative Activity #1 Photo

| | |
|---|---|
|  | |
| **Item12IA1Img1**: Vibration dampers not installed | |

Initiative Activity #2 Photo

| | |
|---|---|
|  | |
| **Item12IA2Img1**: No fiberglass down guy wire insulator installed | |

**Structure ID:** 4944416E

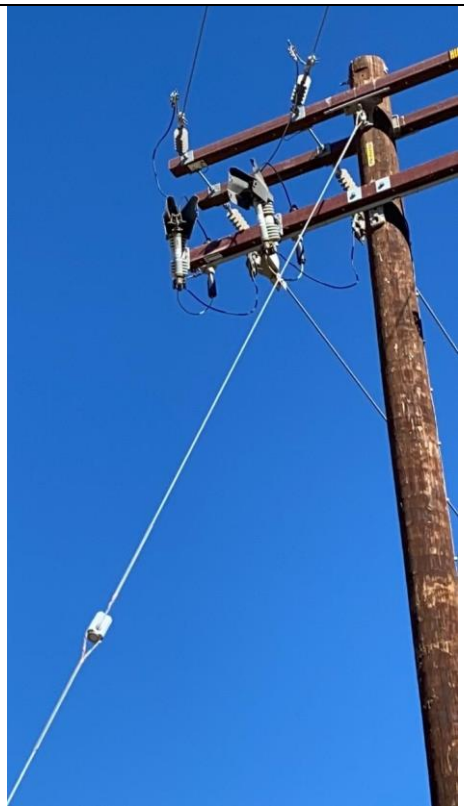
General Photo

| | |
|---|---|
|  |  |
| **Item13GImg1**: Overall pole | **Item13GImg2**: Pole ID |

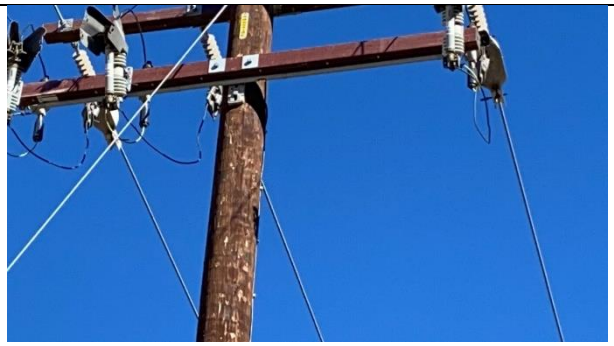
Initiative Activity #1 Photo

| | |
|---|---|
|  |  |
| **Item13IA1Img1**: Bare wire to covered conductor | **Item13IA1Img2**: Bare wire to covered conductor close up |

Initiative Activity #2 Photo

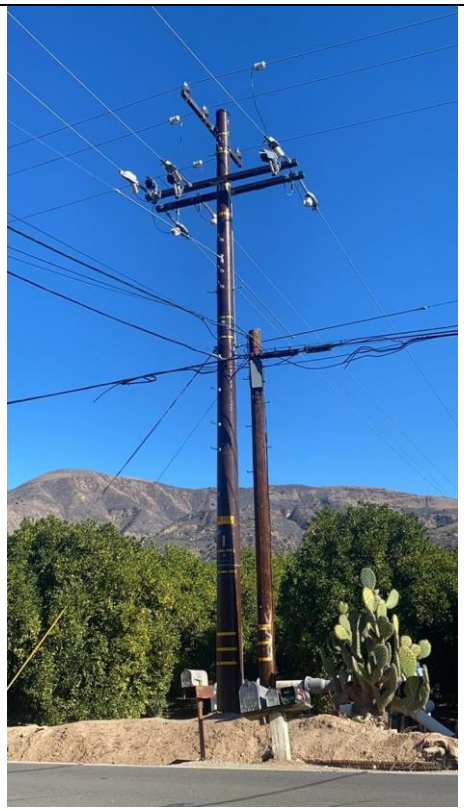
| | |
|---|---|
|  | |
| **Item13IA2Img1**: :  Fiberglass down guy wire insulator not installed | |

Initiative Activity #3 Photo

| | |
|---|---|
|  | |
| **Item13IA3Img1**: Vibration dampers not installed | |

**Structure ID:** 4089206E

General Photo

| | |
|---|---|
|  |  |
| **Item14GImg1**: Overall pole | **Item14GImg2**: Pole ID |

Initiative Activity #1 Photo

| | |
|---|---|
|  | |
| **Item14IA1Img1**: Vibration dampers not installed | |

**Structure ID:** 1025312E

General Photo

| | |
|---|---|
|  |  |
| **Item15GImg1**: Overall pole | **Item15GImg2**: Pole ID |

Initiative Activity #1 Photo

| | |
|---|---|
|  | |
| **Item15IA1Img1**: Vibration dampers not installed | |

Initiative Activity #2 Photo

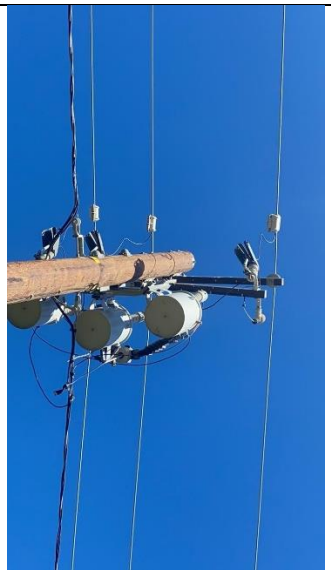
| | |
|---|---|
|  | |
| **Item15IA2Img1**: : Fiberglass span guy wire insulator not installed | |

**Structure ID:** 1025313E

General Photo

| | |
|---|---|
|  |  |
| **Item16GImg1**: Overall pole | **Item16GImg2**: Pole ID |

Initiative Activity #1 Photo

| | |
|---|---|
|  | |
| **Item16IA1Img1**: No vibration dampers installed | |

APPENDIX B: Other Documentation

**Data Request Set, Question 3, ES-SCE-CC Protocols:**

*Southern California Edison*
*WSD Compliance – WSD Compliance*

**DATA REQUEST SET E S - S C E - C C - P r o t o c o l s**

**To: Energy Safety**
**Prepared by: Jerald Foster**
**Job Title: Senior Manager**
**Received Date: 10/11/2021**

**Response Date: 10/25/2021**

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**7.3.3.3.1: Covered Conductor installation (SH-1)**
Per SCE's 2021 WMP update, "In 2021 SCE continues its Wildfire Covered Conductor Program (WCCP), a multi-year program initiated in 2018 that replaces bare overhead conductor with covered conductor in HFRA. SCE also continues installing covered conductor in HFRAs during post-fire restoration work (outside of the WCCP). Poles that require replacement as part of WCCP are replaced with Fire Resistant Poles (FRP)." 1 Pursuant to this statement and SCE's WCCP, Energy Safety requests the following:

1 2021 WMP Update page 213

**Question 03:**
When installing covered conductors, do SCE's current protocols and construction standards require the simultaneous installation or upgrade of other equipment (i.e., crossarms, insulators, jumper wires, etc.)?
a. If so, list and describe all such installations or upgrades.

**Response to Question 03:**

Per the attached document titled "DDS_10 Surge Arresters" it is a requirement to install surge arresters on all equipment connected to covered conductor.

The attached "DOH CC section 190" provides requirements to install vibration dampers on covered conductor systems.

In HFRA installations of covered conductor it is required to upgrade wood crossarms with composite, upgrade all insulators to a polymer insulator, install wildlife protection covers, upgrade fuses where applicable, and upgrade down guy/span guy installation to include Fiberglass Guy Strain Insulators. The standards outlining these requirements are attached in the document titled "DDS Requirements Binder" as well as the attached "DOH Section CC".

## Interim Deviation from Standards on Vibration Damper for Covered Conductor

TRANSMISSION & DISTRIBUTION HOTLINE

PUBLISHED BY T&D CONSTRUCTION METHODS, CHINO

8/18/2021 Ref. No. HL-1921

### Interim Deviation from Standards on Vibration Damper for Covered Conductor

***This Bulletin Supersedes HL-0821***

**Purpose**

This Hotline Bulletin provides SCE, Contract Construction, and Quality Control Personnel guidance on the requirement for installation of vibration dampers due to the temporary shortage of vibration dampers. This deviation allows installation of covered conductor without dampers.

This deviation only applies if the work location does not have the required dampers to complete the installation and will be in effect until December 31, 2021; dampers are still required to be installed for the work locations that have inventory on hand.

**Background**

Installing vibration dampers on the covered conductor mitigates Aeolian vibration by protecting the covered conductor from abrasion and fatigue damage. The vibration damper standard was put into effect in October 2020 and is required for all covered conductors in light loading areas (elevation below 3,000 feet). Recently, SCE has been experiencing an acute shortage of Stockbridge Dampers (refer to Figure 1) for 336 ACSR Covered Conductor due to the high demand and supplier constraints. Additionally, the spiral vibration dampers (refer to Figure 2) for 1/0 ACSR, #2 Copper, and 2/0 Copper may be running low on stock.

Figure 1: Stockbridge Damper

Figure 2: Spiral Damper

## Discussion

Apart from supply shortages, a review of the orders placed for vibration dampers indicates inconsistent ordering practices at various store locations. For example, the analysis shows that some locations are ordering up to ten times more vibration dampers than needed based on the circuit miles of covered conductors to be installed. On the other hand, the analysis shows that some locations with high covered conductor orders are not ordering enough dampers. To ensure consistent delivery of vibration dampers, the following guidance is developed by Supply Chain and Asset & Engineering Strategy team, and it will be applied towards the field requests.[1]
As more inventories become available, Supply Chain will distribute vibration dampers based on the guidance developed and the covered conductor assigned on-site at the designated location.

- 10214215 Spiral Dampers: 1 damper required per phase per span
  - 30 dampers should be allocated per 5,280 feet of covered conductor [2]

- 10214216 (Spiral), 10214493, 10214494, 10214495, 10214496, 10214497, 10214498, 10214499 Stockbridge Dampers: 2 dampers required per phase per span
  - 60 dampers allocated per 5,280 feet of covered conductor [2]

## Action

Deviation from Distribution Overhead Construction Standards CC 190 when dampers are not available is acceptable for the duration of the damper shortage[3], which is projected to last until December 31, 2021. SCE field crews and contractor personnel shall record any spans/locations on the Job Information Sheet (JIS) and Damper Shortage Report, which can be filled out online or in the form attached at the end of this bulletin (refer to Appendix A). The Damper Shortage Report is intended to capture pertinent information where vibration dampers were not installed due to the shortage. The Shortage Reports shall be sent to Niousha Tavakoli biweekly for damper retrofit determination[4]. Then, they will be compiled and sent to the Quality Organization to ensure that no QC corrective actions are given on these work orders. Once the material shortage has been resolved, another bulletin will be published to revoke the deviation process.

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[1] This is distinguished from the standard installation requirement, and it is only for inventory purposes.
[2] Damper allocation assumptions are based on a system average of 180 feet span and should be utilized as guidance, not a one size fits all.
[3] The interim deviation from the standard only applies to construction, and planners need to plan the projects in accordance with the standard as required.
[4] The go back will only target the high vibration susceptibility areas.

**Standards Affected**

DOH CC 190

**Contact Information**

If you have any questions related to this bulletin, please contact:

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Appendix A- Damper Shortage Report

| Date | TD Number | Company Name | District | System Voltage | Structure Number | | Circuit Name | Covered Conductor Size |
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