

Transmission and Substations Field Guides

A list of EPRI field guides to aid utility work crews in interpreting the observed conditions of Transmission and Substation assets.



P35 – Overhead Transmission



Field Guide:
Visual Inspection of
Polymer Insulators

Optimized for Electronic Viewing

Visual Inspection of Polymer Insulators

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Field Guide:
Visual Inspection of
Steel Structures

Optimized for Electronic Viewing

Visual Inspection of Steel Structures

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Field Guide:
Visual Inspection of
Wood Structures

Optimized for Electronic Viewing

Visual Inspection of Wood Structures

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Field Guide:
Inspection of Transmission Line
Foundations

Optimized for Electronic Viewing

Inspection of Transmission Line Foundations

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Field Guide: Inspection,
Maintenance, and Troubleshooting
of Sacrificial Anode Cathodic
Protection Systems for Transmission
Line Structures

Inspection, Maintenance, and Troubleshooting of Sacrificial Anode Cathodic Protection Systems for Transmission Line Structures

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Field Guide:
Visual Inspection of Porcelain
and Glass Disc Insulators

Optimized for Electronic Viewing

Visual Inspection of Porcelain and Glass Disc Insulators

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Field Guide:
Visual Inspection of Avian Issues
on Transmission and Distribution
Structures

Optimized for Electronic Viewing

Visual Inspection of Avian Issues on Transmission and Distribution Structures

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Corrosion Assessment of Weathering
Steel Transmission Structures Field
Guide

Field Measurement Techniques and Visual Inspection Guide

Corrosion Assessment of Weathering Steel Transmission Structures

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Field Guide: Corona Rings
for Polymer Insulators
Detection, Inspection, and Assessment

Optimized for Electronic Viewing

Corona Rings for Polymer Insulators

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Field Guide: Tier 1, Above- and Below-Grade Corrosion Assessment of Weathering Steel Transmission Structures

Tier 1, Above and Below Grade Corrosion Assessment of Weathering Steel Transmission Structures

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Field Guide: Inspection of Transmission Line Grounding Systems

Inspection of Transmission Line Grounding Systems

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Field Guide: Inspection of Conductors for Overhead Transmission Lines

Inspection of Conductors for Overhead Transmission Lines

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Field Guide: Construction and Inspection of Compression Connectors for Overhead Transmission Lines

Construction and Inspection of Compression Connectors for Overhead Transmission Lines

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Field Guide: Infrared Thermography for Overhead Transmission Lines, Overhead Distribution Lines, and Substations

Infrared Thermography for Overhead Transmission Lines, Overhead Distribution Lines, and Substations

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Field Guide: Daytime Discharge Inspection of Transmission and Distribution Overhead Lines and Substations

Daytime Discharge Inspection of Transmission and Distribution Overhead Lines and Substations Guide with Video Product

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Field Guide: Transmission Line Aerial Marking and Lighting

Transmission Line Aerial Marking & Lightning

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Field Guide: Live Working Rope



Live Working Rope

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P37 – Substations



Field Guide: Lubrication of High-Voltage Circuit Breakers

Lubrication of High-Voltage Circuit Breakers (HVCBs)

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Circuit Breaker Pump and Compressor Field Guide

Compressors for High-Voltage Circuit Breakers

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Field Guide:
Did That Transformer Really Fail?

Did That Transformer Really Fail?

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Field Guide: Smart Ground Meter



Optimized for Electronic Viewing

Smart Ground Meter

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Field Guide: Switching Safety and Reliability



Field Guide for Switching Personnel: EPRI Switching Safety and Reliability

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Field Guide:
Substation Physical Security

Substations Physical Security

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Access to the mobile field guide app can be found by scanning the QR codes.

