

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

Tim Shaw

tshaw@epri.com

3002030207



Field Guide:
Visual Inspection
of Steel Structures

Optimized for Electronic Viewing

Visual Inspection of Steel Structures

Neal Murray

nmurray@epri.com

3002030199



Field Guide:
Visual Inspection
of Wood Structures

Optimized for Electronic Viewing

Visual Inspection of Wood Structures

Neal Murray

nmurray@epri.com

3002030200



Field Guide:
Inspection of
Transmission Line
Foundations

Optimized for Electronic Viewing

Inspection of Transmission Line Foundations

Neal Murray

nmurray@epri.com

3002030183



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

Neal Murray

nmurray@epri.com

3002030039



Field Guide:
Visual Inspection of Porcelain
and Glass Disc Insulators

Optimized for Electronic Viewing

Visual Inspection of Porcelain and Glass Disc Insulators

Tim Shaw

tshaw@epri.com

3002030208



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

Tim Shaw

tshaw@epri.com

3002030182



Corrosion Assessment of Weathering
Steel Transmission Structures Field
Guide

Field Measurement Techniques and Visual Inspection Guide

Corrosion Assessment of Weathering Steel Transmission Structures

Neal Murray

nmurray@epri.com

3002025667



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

Optimized for Electronic Viewing

Corona Rings for Polymer Insulators

Tim Shaw

tshaw@epri.com

3002030206

P35 – Overhead Transmission *continued*



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

Neal Murray

nmurray@epri.com

3002029465



Field Guide: Inspection of Transmission Line Grounding Systems

Inspection of Transmission Line Grounding Systems

Tim Shaw

tshaw@epri.com

3002030203



Field Guide: Inspection of Conductors for Overhead Transmission Lines

Inspection of Conductors for Overhead Transmission Lines

Gary Sibilant

gsibilant@epri.com

3002030209



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

Construction and Inspection of Compression Connectors for Overhead Transmission Lines

Gary Sibilant

gsibilant@epri.com

3002030201



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

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

Gary Sibilant

gsibilant@epri.com

3002030202



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

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

Tim Shaw

tshaw@epri.com

3002027269



Field Guide: Transmission Line Aerial Marking and Lighting

Transmission Line Aerial Marking & Lightning

Pierre Marais

jmarais@epri.com

3002030204

Field Guide: Live Working Rope



Live Working Rope

Gary Sibilant

gsibilant@epri.com

3002030210

P37 – Substations



Field Guide: Lubrication of High-Voltage Circuit Breakers

Lubrication of High-Voltage Circuit Breakers (HVCBs)

Bhavin Desai

bdesai@epri.com

3002025468

P37 – Substations *continued*



Circuit Breaker Pump and Compressor Field Guide

Compressors for High-Voltage Circuit Breakers

Bhavin Desai

bdesai@epri.com

3002010228



Field Guide:
Did That Transformer Really Fail?

Did That Transformer Really Fail?

Bhavin Desai

bdesai@epri.com

1024553

Field Guide: Smart Ground Meter



Optimized for Electronic Viewing

Smart Ground Meter

Erika Willis

ewillis@epri.com

1024555

Field Guide: Switching Safety and Reliability



Field Guide for Switching Personnel: EPRI Switching Safety and Reliability

Robert Haromszeki

rharomszeki@epri.com

3002023250



Field Guide:
Substation Physical Security

Substations Physical Security

Erika Willis

ewillis@epri.com

3002015698



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

