

# 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

3002032699



Field Guide:  
Visual Inspection of  
Steel Structures

Optimized for Electronic Viewing

### Visual Inspection of Steel Structures

Neal Murray

nmurray@epri.com

3002032701



Field Guide:  
Visual Inspection of  
Wood Structures

Optimized for Electronic Viewing

### Visual Inspection of Wood Structures

Neal Murray

nmurray@epri.com

3002032702



Field Guide:  
Inspection of Transmission Line  
Foundations

Optimized for Electronic Viewing

### Inspection of Transmission Line Foundations

Neal Murray

nmurray@epri.com

3002032696



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

3002007677



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

3002032700



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

3002032698



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

3002032694

## 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](mailto:nmurray@epri.com)

3002029465



Field Guide: Inspection of Transmission Line Grounding Systems

### Inspection of Transmission Line Grounding Systems

Tim Shaw

[tshaw@epri.com](mailto:tshaw@epri.com)

3002032697



Field Guide: Inspection of Conductors for Overhead Transmission Lines

### Inspection of Conductors for Overhead Transmission Lines

Gary Sibilant

[gsibilant@epri.com](mailto:gsibilant@epri.com)

3002032695



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](mailto:gsibilant@epri.com)

3002032693



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](mailto:tshaw@epri.com)

3002030196



Field Guide: Transmission Line Aerial Marking and Lighting

### Transmission Line Aerial Marking & Lightning

Pierre Marais

[jmarais@epri.com](mailto:jmarais@epri.com)

3002030189

Field Guide: Live Working Rope



### Live Working Rope

Gary Sibilant

[gsibilant@epri.com](mailto: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](mailto: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

3002032934



Field Guide:  
Substation Physical Security

### Substations Physical Security

Erika Willis

ewillis@epri.com

3002015698



Download on the  
App Store

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



GET IT ON  
Google Play