



Grid Reliability Compliance Checklist Template

System Protection and Coordination

Verify compliance with protection system settings and coordination times.

Transformer Overcurrent Relay Setting (kA)

Generator Differential Relay Setting (kA)

Time Delay Coordination Check (ms)

Relay Test Status

- ☐ Pass
- ☐ Fail
- ☐ Not Performed

Last Relay Calibration Date

Relay Testing Start Time

Detailed Observations and Comments

Relay Test Reports

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Voltage and Frequency Compliance

Assess adherence to voltage and frequency limits and regulations.

Voltage at Point A (kV)

Frequency (Hz)

Voltage Regulation Status

- ☐ Within Limits
- ☐ Slightly Outside Limits
- ☐ Significantly Outside Limits

Date of Voltage/Frequency Measurement

Enter date...

Time of Voltage/Frequency Measurement

Details of Any Voltage/Frequency Deviations

Write something...

Corrective Actions Taken

- ☐ None Required
- ☐ Voltage Adjustment
- ☐ Frequency Adjustment
- ☐ Equipment Isolation

Equipment Condition Assessment

Evaluate the condition of critical equipment and identify potential maintenance needs.

Transformer Oil Dissolved Gas Analysis (DGA) Results - Peak Concentration (ppm)

Enter a number...

Breaker Contact Resistance (Ohms)

Enter a number...

Insulation Resistance Test Result (Megohms)

- ☐ Pass
- ☐ Warning
- ☐ Fail

Detailed Description of Observed Conditions (e.g., corrosion, leaks)

Write something...


Date of Last Visual Inspection

Enter date...

Equipment Condition Issues Found?

- ☐ Corrosion
- ☐ Leaks
- ☐ Cracks
- ☐ Excessive Wear
- ☐ None

Attach Relevant Photos or Videos

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Cybersecurity Protocols

Review cybersecurity measures and compliance with industry standards.

Antivirus Software Version

- ☐ Latest Version
- ☐ Previous Version
- ☐ Not Installed

Firewall Rule Count

Enter a number...

Last Security Patch Installation Date

Enter date...

Vulnerability Scan Frequency

- ☐ Daily
- ☐ Weekly
- ☐ Monthly
- ☐ Quarterly

Description of Recent Security Incidents (if any)

Write something...

Multi-Factor Authentication Status

- ☐ Implemented
- ☐ Partially Implemented
- ☐ Not Implemented

Evidence of Security Awareness Training Completion

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Emergency Response Procedures

Validate emergency response plans and training for grid disruptions.

Emergency Contact Person Name

Write something...

Emergency Contact Phone Number

Enter a number...

Date of Last Emergency Drill

Enter date...

Time of Emergency Notification

Type of Emergency Simulated (e.g., Equipment Failure, Natural Disaster)

- ☐ Equipment Failure
- ☐ Natural Disaster
- ☐ Cyber Attack
- ☐ Human Error


Brief Summary of Drill Results and Lessons Learned

Write something...

Emergency Response Team Roles Verified (Select all that apply)

- ☐ Incident Commander
- ☐ Communications Officer
- ☐ Safety Officer
- ☐ Technical Specialist

Attach Drill Report (PDF, DOCX)

 Upload File

Data Reporting and Documentation

Confirm accurate data reporting and comprehensive documentation of compliance activities.

Date of Report Submission

Enter date...

Report Version Number

Enter a number...

Summary of Findings & Deviations

Write something...

Report Status

☐ Draft

☐ Submitted

☐ Approved

☐ Rejected

Supporting Documentation (e.g., Calibration Certificates)

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Corrective Actions Planned (if applicable)

Write something...

Date of Next Review

Enter date...

Reviewer Signature

Regulatory Updates and Training

Ensure awareness of and adherence to the latest regulatory updates and provide appropriate training.

Last Regulatory Update Reviewed

Enter date...

Summary of Recent Regulatory Changes

Write something...

Relevant Regulatory Body

- ☐ NERC
- ☐ FERC
- ☐ State PUC
- ☐ Other

Number of Employees Trained on New Regulations

Enter a number...

Training Modules Covered

- ☐ NERC CIP Standards
- ☐ Grid Security Protocols
- ☐ Emergency Response Procedures
- ☐ Regulatory Compliance Overview

Date of Last Training Session

Enter date...

Training Completion Acknowledgement

Transmission Line Inspections

Verify inspections of transmission lines, including vegetation management and hardware condition.

Inspection Date

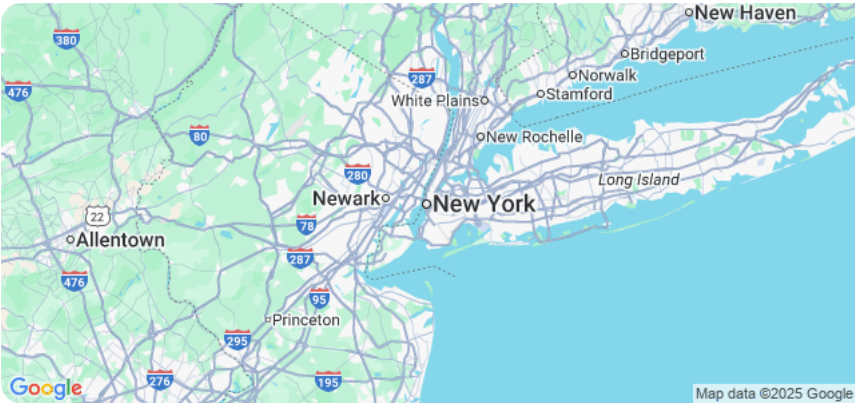
Enter date...

Line Temperature (°C)

Enter a number...

GPS Coordinates of Inspection Point

 Set My Current Location



Weather Conditions

- ☐ Clear
- ☐ Cloudy
- ☐ Rain
- ☐ Snow
- ☐ Fog

Tower Condition Rating (1-5, 1=Excellent, 5=Critical)

Enter a number...

Detailed Description of Tower Condition

Write something...

Potential Issues Identified

- ☐ Corrosion
- ☐ Sagging
- ☐ Broken Hardware
- ☐ Vegetation Encroachment
- ☐ Other

Supporting Photos/Videos

 Upload File

Substation Maintenance

Review substation maintenance records, including transformer oil analysis and breaker testing.

Last Transformer Oil Analysis Date

Enter date...

Transformer Oil Dissolved Gas (DGA) Results - Level 1

Enter a number...

Breaker Timing (Open/Close) - Cycle Time (seconds)

Enter a number...


Circuit Breaker Condition (Post-Test)

- ☐ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

Insulation Resistance Test Result (Megohms)

- ☐ Pass
- ☐ Fail
- ☐ Needs Review

Supporting Documentation (e.g., Test Reports)

 Upload File

Time of Breaker Testing

Any Additional Comments or Observations

Write something...

Communication System Reliability

Assess the reliability of communication systems critical for grid operation.

System Uptime (Percentage)

Enter a number...

Last System Maintenance Date

Enter date...

Typical Network Latency (ms)

Primary Communication Path Status

- ☐ Operational
- ☐ Degraded
- ☐ Down

Backup Communication Systems Available?

- ☐ Yes
- ☐ No

Description of any recent communication system issues

Write something...

Attach latest communication system performance report

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