

## Electrical Power Distribution System Checklist

## **General System Overview & Documentation**

Reviewing system documentation and assessing overall system health.

Write something	
Date of Last System Design Ro	eview
Enter date	
Гotal System Capacity (kVA or	· kW)
Total System Capacity (kVA or Enter a number	· kW)
	· kW)
Enter a number	· kW)
Enter a number	· kW)
System Voltage Level(s)	· kW)

Upload Single Line Diagram	
♣ Upload File	
Document any known issues or limitations of the system.	
Write something	
Date of Last Comprehensive System Review	
Enter date	
Type of System Architecture (e.g., Radial, Ring)	
Radial	
Ring	
Other Other	
lain Incoming Service	
spection of the main electrical service entrance and related equipment.	
Main Service Voltage (V)	
Enter a number	
Main Service Amperage (A)	
Enter a number	

Main Meter Reading
Enter a number
Last Meter Reading Date
Enter date
Service Entrance Condition (Visual)
Excellent
Good
Fair
☐ Poor ☐ Unacceptable
Попассернале
Notes/Comments on Service Entrance Condition
Write something
Disconnect Switch Operability
Operates Normally
Needs Lubrication
<ul><li>Needs Repair</li><li>☐ Inoperative</li></ul>
Порегацие
Service Entrance Photo
4 Upload File

## **Switchgear & Distribution Panels**

Detailed examination of switchgear, distribution panels, and circuit breakers.

Enter a number  Panel Ampacity (A)  Enter a number  Panel Condition (Visual)  Excellent  Good  Fair
Enter a number  Panel Condition (Visual)  Excellent Good Fair
Enter a number  Panel Condition (Visual)  Excellent Good Fair
Panel Condition (Visual)  Excellent  Good Fair
Excellent Good Fair
Good Fair
Fair
<ul><li>☐ Poor</li><li>☐ Needs Attention</li></ul>
Needs Allention
Notes on Panel Appearance/Condition
Write something
Circuit Breaker Operation Test Result
Pass
☐ Fail
□ N/A

Enter a number	
Details of any Breaker Trips or Abnormalities	
Write something	
Last Maintenance Date	
Enter date	
Busbar Condition	
Clean	
Slight Discoloration	
Significant Discoloration  Evidence of Corrosion	
ransformers sessment of transformers, including visual inspection, oil level, and temperature.	
Transformer KVA Rating	
Enter a number	
Input Voltage (Primary)	
Enter a number	

Output Voltage (Secondary)	
Enter a number	
Oil Level (inches from sight glass)	
Enter a number	
Oil Temperature (°C/°F)	
Enter a number	
Oil Condition (Visual Inspection)	
Clear	
Slightly Cloudy	
Cloudy	
☐ Milky ☐ Presence of Sediment	
Treserior of Comment	
Cooling Method	
ONAN	
ONAN/ONAF	
Other (Specify in Long Text)	
Any unusual noises or smells?	
Write something	

ate of Last Oil Analysis	
Enter date	
nergency Power System (EPS) / Generat	or
fication of EPS functionality and generator performance (if applicable).	
Generator Run Time (Hours)	
Enter a number	
oltage Output (V)	
Enter a number	
requency Output (Hz)	
Enter a number	
ast Exercise Date	
Enter date	
xercise Start Time	
ACICISC Start Tillic	
xercise Results/Observations	
Write something	

Fuel Level (Approximate)    Full
Coolant Level  Normal Low Critical
Generator Performance Report (if available)  Lipload File
Uninterruptible Power Supply (UPS)
Inspection and testing of UPS systems (if applicable).
UPS Input Voltage (VAC)
Enter a number
UPS Output Voltage (VAC)
Enter a number

Enter a number	
JPS Load Percentage (%)	
Enter a number	
UPS Status (Online, Standby, Test, Fault)	
Online	
Standby	
Test Fault	
Last Battery Replacement Date	
Enter date	
Observations/Notes on UPS Performance	
Write something	
JPS Event Log (if available)	

Battery Type  VRLA Flooded Gel Other
Grounding & Bonding  Verification of proper grounding and bonding throughout the electrical system.
remication of proper grounding and bonding throughout the electrical system.
Ground Resistance Measurement (Ohms)
Enter a number
Bonding Resistance Measurement (Ohms)  Enter a number
Grounding Electrode Type
Ground Rod
Plate
Concrete Encased Electrode
<ul><li>Water Pipe</li><li>☐ Other (Specify)</li></ul>
Description of Grounding System Configuration
Write something

Visual Inspection of Grounding Connections  Good Fair Poor Corrosion Present	
Areas Checked for Bonding  Metallic Water Pipes Gas Piping Structural Steel Building Shell Equipment Grounding	
Last Grounding System Inspection Date  Enter date	)
Wiring & Conduit Visual inspection of wiring, conduit, and related supports.	
Conduit Installation Condition Rating (1-5, 1=Poor, 5=Excellent)  Enter a number	)

Conduit Damage Observed?  None Minor Dents/Scratches Cracks Kinks Corrosion Other (Specify in Long Text)
If 'Other' damage selected above, please specify:  Write something
Number of Conduit Supports Securely Attached  Enter a number  Wiring Condition (Overall)  Excellent Good
Good Fair Poor

Wiring Degradation Observed?
None
☐ Brittle Insulation
Cracked Insulation
Discoloration
Fraying
Rodent Damage
Other (Specify in Long Text)
If 'Other' degradation selected above, please specify:
Write something
Wire Identification (Color Coding) Consistency
Consistent
Mostly Consistent
☐ Inconsistent
Upload Photo(s) of Conduit/Wiring (if issues found)
♣ Upload File
Load Monitoring & Energy Management
Reviewing load monitoring data and energy management system performance.
Total Facility Power Consumption (kWh)

Enter a number...

Peak Demand (kW)
Enter a number
Power Factor
Enter a number
Energy Management System (EMS) Status
Operational Operational
☐ Degraded
☐ Offline ☐ Not Applicable
Nata an Barant Francisco Transla
Notes on Recent Energy Usage Trends
Write something
Last EMS Software Update Date
Enter date
Energy Saving Initiatives Implemented?
<ul><li>☐ LED Lighting Upgrade</li><li>☐ HVAC Optimization</li></ul>
Occupancy Sensors
Power Factor Correction
None

Baseline Energy Consumption (kWh)	
Enter a number	
afety & Compliance	
erification of safety measures and compliance with relevant codes	and standards.
Last Safety Audit Date	
Within Last Year	
More Than a Year Ago	
☐ Not Applicable	
Number of Safety Violations Found in Previous Inspection	
Enter a number	
Details of Any Safety Concerns Identified	
Write something	
Arc Flash Risk Assessment Up-to-Date?	
☐ Yes	
No Not Applicable	
Date of Last Arc Flash Study	
Enter date	

Lockout/Tagout (LOTO) Procedures Reviewed?  Yes  No N/A
Upload of Relevant Safety Certifications (e.g., NFPA 70E)  4 Upload File
Compliance with Local Electrical Codes?  Yes No Unsure