



Industrial Generator And Backup Power System Maintenance Checklist 2026

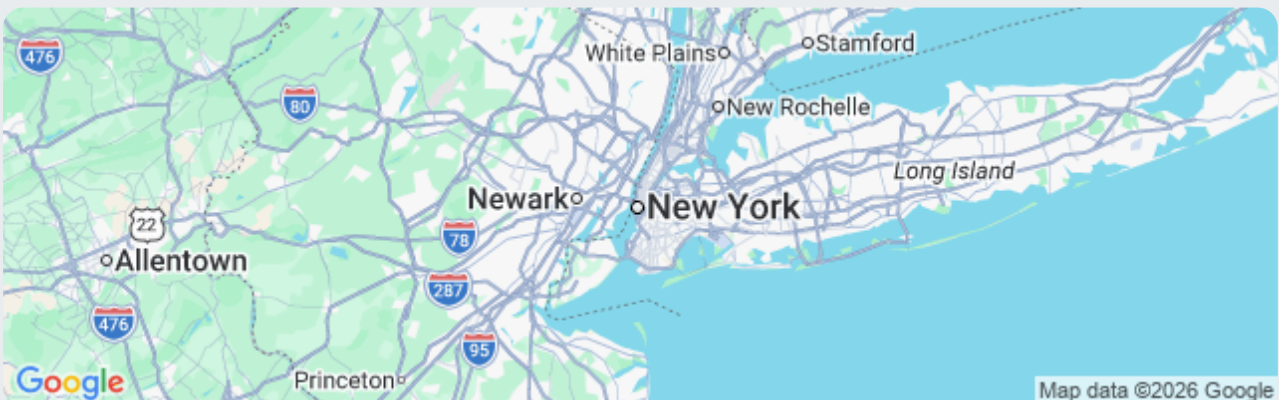
Pre-Start Inspection & Visual Check

Routine visual examination of the generator unit, enclosure, and surrounding area for leaks, debris, or obstructions.

Inspection Date

Generator Unit ID/Location

 [Set My Current Location](#)



Enclosure Integrity Check

- ☐ No visible damage/corrosion
- ☐ Minor damage - requires monitoring
- ☐ Significant damage - requires immediate repair

Visible External Hazards Detected

- ☐ Debris/Obstructions
- ☐ Fluid Leaks (Oil/Coolant/Fuel)
- ☐ Corrosion/Rust
- ☐ Loose Wiring/Cables

Detailed Observations/Notes

Write something...

Photo Documentation of Unit

 Upload File

Inspector Signature

Engine & Lubrication System

Verification of oil levels, oil filter condition, coolant levels, and inspection of all belts and hoses for wear or cracks.

Inspection Date

Enter date...

Engine Oil Level Status

- ☐ Adequate
- ☐ Low
- ☐ Critical/Empty

Engine Hours Since Last Service

Enter a number...

Lubrication Components Inspected

- ☐ Oil Filter
- ☐ Oil Pan/Sump
- ☐ Oil Pressure Sensor
- ☐ Dipstick

Observations and Leakage Findings

Write something...

Photo of Oil Condition/Level

 Upload File

Technician Verification

Fuel System Maintenance

Inspection of fuel lines, fuel tank levels, fuel filters, and checking for signs of leakage or contamination in the diesel/gas supply.

Inspection Date

Fuel Level Status

- ☐ Full
- ☐ Adequate
- ☐ Low
- ☐ Critical/Empty

Fuel Leak Inspection Findings

Fuel Filter Condition

- ☐ Good
- ☐ Needs Cleaning
- ☐ Requires Replacement

Fuel Tank Level (Liters/Gallons)

Fuel Sample Analysis Report

 Upload File

Technician Verification

Electrical System & Battery Testing

Testing of battery voltage, checking terminal connections, inspecting the alternator, and verifying the functionality of the automatic transfer switch (ATS).

Inspection Date

Battery Voltage Reading (V)

Battery Terminal Condition

- ☐ Clean and Secure
- ☐ Corroded
- ☐ Loose Connections

Automatic Transfer Switch (ATS) Status

- ☐ Operational
- ☐ Fault Detected
- ☐ Needs Maintenance

Inspected Components

- ☐ Battery Terminals
- ☐ Charger Functionality
- ☐ Wiring & Cables
- ☐ Control Circuitry

Electrical Observations & Notes

Write something...

Technician Signature

Cooling & Exhaust System

Inspection of radiator cleanliness, coolant concentration, exhaust manifold integrity, and muffler/silencer condition.

Radiator Condition

- ☐ Clean
- ☐ Clogged/Dirty
- ☐ Damaged

Coolant Level (Liters/Gallons)

Enter a number...

Coolant Concentration/Antifreeze Level

- ☐ Optimal
- ☐ Low
- ☐ Requires Refill

Exhaust System Leak Detection Notes

Write something...

Inspected Components

- ☐ Radiator Hoses
- ☐ Exhaust Manifold
- ☐ Muffler/Silencer
- ☐ Cooling Fan
- ☐ Expansion Tank

Upload Photos of Cooling/Exhaust Condition

 Upload File

Control Panel & Monitoring Systems

Validation of all digital displays, sensor functionality, alarm logs, and checking for any active error codes or warning lights.

Inspection Date

Enter date...

Control Panel Display Status

- ☐ Functional / Clear
- ☐ Error Codes Present
- ☐ Damaged / Unreadable

Current Operating Hours

Enter a number...

Checked Sensor Modules

- ☐ Oil Pressure Sensor
- ☐ Water Temperature Sensor
- ☐ Voltage Regulator Sensor
- ☐ Frequency Sensor
- ☐ Fuel Level Sensor

Active Error Codes or Alarm Logs

Write something...

Control Panel Photo Documentation

 Upload File

Technician Verification

Load Testing & Performance Verification

Operational testing under load to ensure frequency, voltage, and engine stability remain within specified parameters.

Test Date

Enter date...

Voltage Output (V)

Enter a number...

Frequency (Hz)

Enter a number...

Load Capacity Percentage

☐ 25% Load

☐ 50% Load

☐ 75% Load

☐ 100% Load

Performance Observations

Write something...

Load Test Report/Graph

 Upload File

Technician Signature

Safety & Containment Systems

Inspection of emergency stop buttons, fire suppression systems, and secondary containment bunds for environmental compliance.

Emergency Stop Button Status

- ☐ Operational
- ☐ Faulty/Requires Repair
- ☐ Not Applicable

Fire Suppression System Inspection

- ☐ Passed
- ☐ Failed
- ☐ Needs Refill/Service

Secondary Containment Integrity

Write something...

Safety Equipment Present

- ☐ Fire Extinguisher
- ☐ Spill Kit
- ☐ Personal Protective Equipment (PPE)
- ☐ Warning Signage

Safety Certificate/Permit Upload

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Safety Inspector Verification

< Previous

> Next

✔ Finish

✎ Generate Sample Report