



Standby Generator Maintenance Checklist

12 planned preventive maintenance tasks · Free PDF from PM Assist

A practical starting point for planned preventive maintenance. Always refer to the manufacturer's O&M manual and site-specific requirements.

Visual Checks

- ☐ Check engine oil level, coolant level, and fuel level
- ☐ Inspect the exhaust system for leaks, corrosion, or lagging damage
- ☐ Check the fuel system for leaks and inspect fuel filters
- ☐ Inspect air intake filter and cooling system fan
- ☐ Check fuel storage tank level and condition

Functional Checks

- ☐ Start the generator on manual test and run for the recommended period
- ☐ Verify the automatic transfer switch (ATS) operates correctly on simulated mains failure
- ☐ Check battery voltage, electrolyte level, and charger operation
- ☐ Verify the block heater is maintaining engine temperature
- ☐ Check alternator output voltage and frequency under load

Safety Checks

- ☐ Test emergency stop and remote shutdown functions

Record Keeping

- ☐ Record run hours, voltage, frequency, oil pressure, and coolant temperature

Maintenance Frequency

Weekly

- Visual inspection and no-load run test
- Check oil, coolant, and fuel levels
- Battery voltage check

Monthly

- Run under load (building load or load bank)
- ATS transfer test
- Check air filter and belts

Annually

- Full engine service (oil, filters, coolant)
- Load bank test to rated capacity
- Battery replacement if required
- Fuel quality test and tank inspection
- Electrical system checks