

Company Name: _____

Maintenance Forms & Logs

Date: _____

Log ID: _____

Version: 1.0

Emergency Standby Diesel Generator No Load Weekly Test Log

1.0 Form Objective & Asset Scope

This weekly test log is designed to document the no-load operational test of emergency standby diesel generators. The purpose is to verify automatic transfer switch (ATS) functionality, engine start reliability, coolant and oil system integrity, and fuel supply without applying electrical load. This log supports compliance with NFPA 110 and local Canadian building codes for emergency power systems.

Scope includes all emergency standby diesel generators rated above 20 kW that are required to maintain life safety, fire pump, or critical process loads during utility failure. This test does not replace annual load bank testing.

2.0 Administrative & Asset Details

Date of Test: _____

Technician Name (Print): _____

Generator Asset Tag / Serial Number: _____

Engine Model / Manufacturer: _____

Hour Meter Reading (Start of Test): _____

Fuel Level (%) or Fuel Gauge Reading: _____

3.0 Inspection / Parameter Checklist

- ☐ Pass ☐ Fail - Verify ATS is in automatic position and utility power is present.
- ☐ Pass ☐ Fail - Simulate utility failure (open ATS test switch or main breaker) and confirm generator cranks and starts within 10 seconds.
- ☐ Pass ☐ Fail - Record engine coolant temperature after 5 minutes of stable no-load operation (target: 160-190°F).
- ☐ Pass ☐ Fail - Record engine oil pressure at idle (target: 30-60 psi depending on OEM spec).
- ☐ Pass ☐ Fail - Record battery voltage at rest and during cranking (min 12.4V rest, 9.6V during crank for 12V system).
- ☐ Pass ☐ Fail - Inspect for any coolant, oil, or fuel leaks under the engine and around connections.
- ☐ Pass ☐ Fail - Verify exhaust system is free of obstructions and no excessive smoke (black/blue/white).
- ☐ Pass ☐ Fail - Check fuel day tank level and confirm no water or sediment in fuel filter/water separator.
- ☐ Pass ☐ Fail - Listen for abnormal mechanical noise (knocking, screeching, vibration).
- ☐ Pass ☐ Fail - Verify automatic transfer switch returns to utility power after test and generator cool-down cycle completes.

☐ Pass ☐ Fail - Record total run time (minutes) for this test.

☐ Pass ☐ Fail - Reset any alarms or fault codes on the generator controller.

4.0 Deficiencies & Work Order Generation

Issue Description (e.g., hard start, coolant leak, alarm code): _____

Corrective Action Taken (e.g., tightened hose clamp, cleared fault): _____

Parts Required (include part numbers if known): _____

Work Order Number (if follow-up required): _____

5.0 Sign-off & Return to Operations

Maintenance Technician Signature: _____ Date: _____

Date of Signature: _____ Date: _____

Reliability Manager or Supervisor Review: _____ Date: _____

Date of Review: _____ Date: _____

Regulatory Disclaimer: This maintenance log is a generic template. The end-user assumes all liability for validating all inspection parameters, PM frequencies, and tolerances against specific OEM machinery manuals before active shop floor deployment.