

Company Name: _____

Maintenance Forms & Logs

Date: _____

Log ID: _____

Version: 1.0

Emergency Standby Diesel Generator Monthly Load Bank Testing Log

1.0 Form Objective & Asset Scope

This maintenance log is designed to document the monthly load bank testing of emergency standby diesel generators. The purpose is to verify generator performance under load, prevent wet stacking, ensure fuel system integrity, and confirm that the unit can deliver rated power during an emergency. This log is critical for reliability, compliance with NFPA 110, and extending generator service life.

2.0 Administrative & Asset Details

Date: _____

Technician Name: _____

Generator ID / Asset Tag: _____

Generator Make & Model: _____

Hour Meter Reading (Start): _____

Hour Meter Reading (End): _____

Load Bank Type (Resistive / Reactive / Combined): _____

3.0 Inspection / Parameter Checklist

- ☐ Pass ☐ Fail - Verify fuel level is adequate for full load test duration.
- ☐ Pass ☐ Fail - Check coolant level and antifreeze concentration.
- ☐ Pass ☐ Fail - Inspect engine oil level and condition.
- ☐ Pass ☐ Fail - Check battery voltage and specific gravity (if accessible).
- ☐ Pass ☐ Fail - Inspect air intake and exhaust system for obstructions.
- ☐ Pass ☐ Fail - Record coolant temperature at 50% load.
- ☐ Pass ☐ Fail - Record oil pressure at 100% load.
- ☐ Pass ☐ Fail - Record voltage (L-L and L-N) at 100% load.
- ☐ Pass ☐ Fail - Record frequency (Hz) at 100% load.
- ☐ Pass ☐ Fail - Record amperage per phase at 100% load.
- ☐ Pass ☐ Fail - Verify exhaust temperature within OEM limits.
- ☐ Pass ☐ Fail - Check for fuel, oil, or coolant leaks during operation.

4.0 Deficiencies & Work Order Generation

Issue Description: _____

Parts Required: _____

Work Order Number Generated: _____

Priority (Low / Medium / High / Critical): _____

5.0 Sign-off & Return to Operations

Maintenance Technician Signature: _____ Date: _____

Reliability Manager Review: _____ Date: _____

Facility Manager Approval (if applicable): _____ 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.