# HEALTHCARE FACILITY HUB • EPSS TESTING LOG PACK

Form 1: Monthly Loaded Exercise Log (NFPA 110 § 8.4.2 • NFPA 99 § 6.4.4.1 • CMS Tag A-0726)

**$7 WORKING PACK**
Current version — Oct 31, 2026
Update history: healthcarefacilityhub.org/hospital-generator-wet-stacking-load-bank-testing/

| FACILITY / HOSPITAL NAME | GENERATOR TAG / UNIT ID | MAKE & ENGINE MODEL | STANDBY NAMEPLATE KW |
|---|---|---|---|
| NOMINAL VOLTAGE & PHASE | RATED AMPS & POWER FACTOR | 30% NAMEPLATE KW TARGET | DAY TANK / BULK TANK GAL |

**Surveyor Mandate:** CMS Tag A-0726 requires recording quantitative physical values for every test run over 36 consecutive months. Record exact engineering readings. If load is <30% nameplate and exhaust temp is below manufacturer minimum, annual load bank testing is statutory.

| Month / Date | Run Time (Min) | Load (kW) | % Nameplate | Voltage (L-L) | Freq (Hz) | Oil Press (psi) | Jacket Water (°F) | Exhaust Temp (°F) | 10s ATS Time (sec) | Exhaust Slobber? | Criterion A or B Met? | Tech Initials |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Month 01 | | | | | | | | | | [ ] None [ ] Yes | [ ] Pass [ ] Fail | |
| Month 02 | | | | | | | | | | [ ] None [ ] Yes | [ ] Pass [ ] Fail | |
| Month 03 | | | | | | | | | | [ ] None [ ] Yes | [ ] Pass [ ] Fail | |
| Month 04 | | | | | | | | | | [ ] None [ ] Yes | [ ] Pass [ ] Fail | |
| Month 05 | | | | | | | | | | [ ] None [ ] Yes | [ ] Pass [ ] Fail | |
| Month 06 | | | | | | | | | | [ ] None [ ] Yes | [ ] Pass [ ] Fail | |
| Month 07 | | | | | | | | | | [ ] None [ ] Yes | [ ] Pass [ ] Fail | |
| Month 08 | | | | | | | | | | [ ] None [ ] Yes | [ ] Pass [ ] Fail | |
| Month 09 | | | | | | | | | | [ ] None [ ] Yes | [ ] Pass [ ] Fail | |
| Month 10 | | | | | | | | | | [ ] None [ ] Yes | [ ] Pass [ ] Fail | |
| Month 11 | | | | | | | | | | [ ] None [ ] Yes | [ ] Pass [ ] Fail | |
| Month 12 | | | | | | | | | | [ ] None [ ] Yes | [ ] Pass [ ] Fail | |

Lead Testing Technician Signature | Date | Chief Plant Engineer / CHFM Approval | Date

# HEALTHCARE FACILITY HUB • EPSS TESTING LOG PACK

Form 2: 10-Second Automatic Transfer Switch (ATS) Priority Log (NFPA 110 Type 10)

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**Type 10 Standard:** NFPA 110 mandates that the emergency power supply system (EPSS) restore power to Life Safety and Critical branches within **10.0 seconds** of normal utility outage. Use a calibrated handheld digital stopwatch. Record each individual ATS transition time.

| ATS ID Tag | Branch Served (Life Safety / Critical / Equip) | Physical Location (Room / Floor) | Normal Utility Dropout Time | Engine Crank Signal Initiated | Generator Voltage/Hz Ready | ATS Contact Closure Time | Total Elapsed Time (Sec) | ≤10.0s Met? | Re-Transfer Normal (Min) |
|---|---|---|---|---|---|---|---|---|---|
| ATS-LS-1 | Life Safety Branch | Main Elec Rm A | | | | | | [ ] Yes [ ] No | |
| ATS-LS-2 | Life Safety Branch | North Wing Vault | | | | | | [ ] Yes [ ] No | |
| ATS-CR-1 | Critical Branch (OR/ICU) | Main Elec Rm A | | | | | | [ ] Yes [ ] No | |
| ATS-CR-2 | Critical Branch (Emergency Dept) | South Substation | | | | | | [ ] Yes [ ] No | |
| ATS-EQ-1 | Equipment Delayed (HVAC/Chillers) | Penthouse Plant | | | | | | [ ] N/A [Delayed] | |
| ATS-EQ-2 | Equipment Delayed (Med Gas/Suction) | Boiler Plant | | | | | | [ ] N/A [Delayed] | |
| ATS-07 | | | | | | | | [ ] Yes [ ] No | |
| ATS-08 | | | | | | | | [ ] Yes [ ] No | |
| ATS-09 | | | | | | | | [ ] Yes [ ] No | |
| ATS-10 | | | | | | | | [ ] Yes [ ] No | |

**Stopwatch Calibration & Test Protocol:**
Stopwatch Manufacturer & Serial: _____
Calibration Due Date: _____
Test Method: [ ] Simulated Utility Breaker Open [ ] ATS Test Switch

**Deficiency Escalation (If Elapsed >10.0 Seconds):**
If any Life Safety or Critical ATS exceeds 10.0 seconds, notify Chief Engineer immediately. Investigate engine starting solenoid, battery impedance, and ATS time-delay controls.

Test Conductor Signature | Date | Supervising Master Electrician | Date

# HEALTHCARE FACILITY HUB • EPSS TESTING LOG PACK

Form 3: Annual Supplemental Load Bank Stepping Worksheet (NFPA 110 § 8.4.2.3)

**$7 WORKING PACK**
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| GENERATOR UNIT ID | STANDBY RATING (KW) | LOAD BANK CONTRACTOR | AMBIENT AIR TEMP (°F) |
|---|---|---|---|
| | | | |

**Stepped 2-Hour Protocol:** Step 1 (0:00–0:30 at 25% kW) • Step 2 (0:30–1:00 at 50% kW) • Step 3 (1:00–2:00 at 75% kW). Clears accumulated wet stacking carbon and verifies engine thermal equilibrium under controlled resistance.

| Elapsed Time | Target Step | Applied kW | Actual Volts | Freq (Hz) | Amps (A/B/C) | Oil Press (psi) | Jacket H2O (°F) | Exhaust Temp (°F) | Exhaust Smoke | Observations / Slobber Clearing |
|---|---|---|---|---|---|---|---|---|---|---|
| 00:00 (Start) | Warmup | 0 kW | | | | | | | [ ] Clear [ ] Haze | No-load idle baseline |
| 00:10 | 25% Step | | | | | | | | [ ] Clear [ ] Dark | Initial load acceptance check |
| 00:20 | 25% Step | | | | | | | | [ ] Clear [ ] Dark | Oil/water temperature stabilizing |
| 00:30 | 25% Step | | | | | | | | [ ] Clear [ ] Dark | End of Step 1; prepare 50% step |
| 00:40 | 50% Step | | | | | | | | [ ] Clear [ ] Dark | Noticeable exhaust temperature rise |
| 00:50 | 50% Step | | | | | | | | [ ] Clear [ ] Dark | Watch for exhaust joint slobber burn |
| 01:00 | 50% Step | | | | | | | | [ ] Clear [ ] Dark | End of Step 2; prepare 75% step |
| 01:15 | 75% Step | | | | | | | | [ ] Clear [ ] Haze | Combustion chamber carbon burning |
| 01:30 | 75% Step | | | | | | | | [ ] Clear [ ] Haze | Radiator cooling equilibrium check |
| 01:45 | 75% Step | | | | | | | | [ ] Clear [ ] Haze | Fuel day tank replenishment check |
| 02:00 | 75% Step | | | | | | | | [ ] Clear [ ] Haze | Test complete; begin 5-min cool down |
| 02:05 (Idle) | Cooldown | 0 kW | | | | | | | [ ] Clear | Normal cool down before shutdown |

Load Bank Operator Signature | Contractor License # | Hospital Plant Operations Representative | Date

## CERTIFICATE OF TRIENNIAL EMERGENCY GENERATOR ENDURANCE TESTING

In Compliance with NFPA 110 § 8.4.9, NFPA 99 Chapter 6, and CMS Tag A-0726

| HOSPITAL NAME | GENERATOR UNIT NUMBER | STANDBY RATING (KW / KVA) | DATE OF 36-MONTH TEST |
|---|---|---|---|
| | | | |

| Test Interval | Actual Load (kW) | % Nameplate | Volts & Hz | Oil Press (psi) | Radiator Temp In/Out | Fuel Drawdown (Gal) | Ambient Temp (°F) | Equilibrium Status |
|---|---|---|---|---|---|---|---|---|
| Hour 0.5 | | | | | | | | [ ] Thermal Rise |
| Hour 1.0 | | | | | | | | [ ] Near Equilibrium |
| Hour 1.5 | | | | | | | | [ ] Stable |
| Hour 2.0 | | | | | | | | [ ] Full Equilibrium |
| Hour 2.5 | | | | | | | | [ ] Stable |
| Hour 3.0 | | | | | | | | [ ] Stable |
| Hour 3.5 | | | | | | | | [ ] Stable |
| Hour 4.0 | | | | | | | | [ ] Final Stable Run |

**Certification Statement (Life Safety e-SOC Record):**
I hereby certify that the emergency generator identified above was continuously operated under loaded conditions for not less than four (4.0) continuous hours in accordance with NFPA 110 § 8.4.9. The unit demonstrated thermal equilibrium, stable voltage and frequency regulation, continuous fuel replenishment, and full mechanical integrity without shutdown alarms or excessive slobber.

**Director of Facilities / Chief Plant Engineer (CHFM / PE)**
Printed Name: _____
Professional License / Certification #: _____

**Authorized Witness / Hospital Safety Officer**
Printed Name: _____
Date of Endorsement: _____

# HEALTHCARE FACILITY HUB • EPSS TESTING LOG PACK

Form 5: CMS Tag A-0726 & TJC EC.02.05.07 Pre-Survey Self-Audit Checklist

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**Surveyor Readiness:** Use this checklist 30 days prior to unannounced Joint Commission Life Safety or CMS State Survey windows. Every "No" is a potential Condition-level deficiency requiring immediate corrective work.

| Item | Standard / Requirement | Verification & Physical Evidence Protocol | Status | Deficiency # |
|---|---|---|---|---|
| 1 | **36 Consecutive Months of Logs** (CMS Tag A-0726) | Are emergency generator and ATS logs complete, continuous, and readily retrievable on site for 3 full calendar years without missing months? | [ ] Yes [ ] No | |
| 2 | **Quantitative Data Recorded** (No Checkmarks) | Do all monthly logs record exact physical numbers (kW load, volts, Hz, oil pressure psi, jacket water temp °F)? No simple "Pass/Fail" checkmarks. | [ ] Yes [ ] No | |
| 3 | **30% Load / EGT Compliance** (NFPA 110 § 8.4.2) | Did every monthly 30-minute exercise reach ≥30% standby nameplate kW or manufacturer minimum exhaust gas temperature? | [ ] Yes [ ] No | |
| 4 | **Annual Load Bank Execution** (NFPA 110 § 8.4.2.3) | If monthly exercises fell below 30% load, was a 2-hour supplemental stepped load bank test (25%/50%/75%) conducted within the past 12 months? | [ ] Yes [ ] No [ ] N/A | |
| 5 | **10-Second ATS Transfer** (NFPA 110 Type 10) | Are stopwatch times documented proving Life Safety and Critical branches transfer power within 10.0 seconds of outage initiation? | [ ] Yes [ ] No | |
| 6 | **Triennial 4-Hour Endurance** (NFPA 110 § 8.4.9) | Has a continuous 4-hour loaded test at ≥30% capacity been conducted and certified within the past 36 months? | [ ] Yes [ ] No | |
| 7 | **Remote Annunciator Panel** (NFPA 110 § 5.6.5.2) | Is the remote panel located in a 24-hr staffed area (Security/ED)? Is battery backup functional? Can staff explain trouble indicators? | [ ] Yes [ ] No | |
| 8 | **Emergency Stop (E-Stop) Switch** (Annual Functional Test) | Is the external E-stop labeled, tamper-protected, and functionally tested within the last 12 months to confirm engine shutdown? | [ ] Yes [ ] No | |
| 9 | **ASTM D975 Fuel Testing** (NFPA 110 § 8.3.8) | Are annual laboratory diesel fuel test reports on file (flash point, water/sediment, viscosity, copper strip corrosion)? | [ ] Yes [ ] No | |
| 10 | **Jacket Water Heater Maintenance** (NFPA 110 § 8.4.1) | Are weekly logs proving water temperature is maintained between 90°F and 100°F (32°C–38°C) for instant cold starting? | [ ] Yes [ ] No | |

Auditor / Compliance Specialist Signature

Date of Audit

Director of Plant Operations Review

Corrective Action Plan Filed? [ ] Yes