

**NFPA 110 Maintenance and Operational Testing Log**



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Call 800-573-9200 for  
24/7 Service

Site/Location: \_\_\_\_\_  
 Generator Make/Model: \_\_\_\_\_  
 Engine Model: \_\_\_\_\_  
 Serial #: \_\_\_\_\_

Normal Operating Temp: \_\_\_\_\_  
 Normal Oil Pressure: \_\_\_\_\_

Fuel Type: \_\_\_\_\_  
 Standby kW Rating: \_\_\_\_\_ kW  
 30% of Standby Rating: \_\_\_\_\_ kW

Date Tested: \_\_\_\_\_

**1) Perform maintenance per Maintenance Schedule**

Test Specific Gravity \_\_\_\_\_  
 Complete Checklist \_\_\_\_\_  
 General Condition \_\_\_\_\_

**2) Record running time meter (RTM) at start and end of test.**

Start (Hrs.) \_\_\_\_\_  
 End (Hrs.) \_\_\_\_\_

**3) Simulate power failure from a cold start using test switch or opening normal power supply.**

**4) Observe and record time delay (T/D) on start.**

T/D Start (sec) \_\_\_\_\_

**5) Record cranking time (terminates when engine starts).**

Crank time (sec) \_\_\_\_\_

**6) Transfer load to EPS Generator.**

T/D Transfer (sec) \_\_\_\_\_

**7) Record AC voltage, frequency, amperage.**

AC Voltage \_\_\_\_\_  
 Hz \_\_\_\_\_  
 AC Amps \_\_\_\_\_  
 AC kW \_\_\_\_\_

**8) Record initial oil pressure and battery charging rate.**

Oil pressure (psi) \_\_\_\_\_  
 DC Amps \_\_\_\_\_

**9) Record oil pressure, battery charging rate, and water or air temp after 15-min running time.**

Oil pressure (psi) \_\_\_\_\_  
 DC Amps \_\_\_\_\_  
 Water/Air Temp \_\_\_\_\_

**10) Re-transfer back to normal power after running under load for a minimum of 30 minutes.**

**11) Record engine and AC instruments just prior to re-transfer.**

Oil pressure (psi) \_\_\_\_\_  
 DC Amps \_\_\_\_\_  
 Water/Air Temp \_\_\_\_\_  
 AC Voltage \_\_\_\_\_  
 Hz \_\_\_\_\_  
 AC Amps \_\_\_\_\_  
 AC kW \_\_\_\_\_

**12) Record time delay on re-transfer.**

T/D re-transfer (min) \_\_\_\_\_

**13) Record time delay on shutdown for units so equipped.**

T/D Stop (min) \_\_\_\_\_

**14) Place unit in automatic operation mode.**

Operator Initials \_\_\_\_\_