

NFPA 110 Operational Test Report



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Call 800-573-9200 for
24/7 Service

Site/Location: _____
 Generator Make/Model: _____
 Engine Model: _____
 Serial #: _____

Fuel Type: _____
 Standby kW Rating: _____ kW
 30% of Standby Rating: _____ kW

Date Tested _____

Comments on Unsatisfactory Conditions and Actions Taken

<p>1) Perform maintenance per Maintenance Schedule</p> <p>Test Battery Specific Gravity Pass / Fail (all cells 1250-1275)</p> <p>Complete Checklist <input type="checkbox"/></p> <p>General Condition Poor / Avg / Good</p>	
<p>2) Record running time meter (RTM) at start and end of test.</p> <p>Start (Hrs.) _____</p> <p>End (Hrs.) _____</p>	
<p>3) Simulate power failure from a cold start using test switch or opening normal power supply.</p>	
<p>4) Observe and record time delay (T/D) on start.</p> <p>T/D Start (sec) _____ 1 sec minimum</p>	
<p>5) Record cranking time (terminates when engine starts).</p> <p>Crank time (sec) _____</p>	
<p>6) Transfer load to EPS Generator.</p> <p>T/D Transfer (sec) _____ 10 sec for Type 10 EPSS</p>	
<p>7) Record AC voltage, frequency, amperage.</p> <p>AC Voltage _____</p> <p>Hz _____</p> <p>AC Amps _____</p> <p>AC kW _____</p>	
<p>8) Record initial oil pressure and battery charging rate.</p> <p>Oil pressure (psi) _____</p> <p>DC Amps _____</p>	
<p>9) Record oil pressure, battery charging rate, and water or air temp after 15-min running time.</p> <p>Oil pressure (psi) _____</p> <p>DC Amps _____</p> <p>Water/Air Temp _____</p>	
<p>10) Re-transfer back to normal power after running under load for a minimum of 30 minutes.</p>	
<p>11) Record engine and AC instruments just prior to re-transfer.</p> <p>Oil pressure (psi) _____</p> <p>DC Amps _____</p> <p>Water/Air Temp _____</p> <p>AC Voltage _____</p> <p>Hz _____</p> <p>AC Amps _____</p> <p>AC kW _____</p>	
<p>12) Record time delay on re-transfer.</p> <p>T/D re-transfer (min) _____ 5 min minimum</p>	
<p>13) Record time delay on shutdown for units so equipped.</p> <p>T/D Stop (min) _____ 5 min minimum</p>	
<p>14) Place unit in automatic operation mode.</p> <p>Operator Initials _____</p>	

Test Results: NFPA 110 requires that generator sets in Level 1 or Level 2 service shall be exercised at least once monthly, for a minimum of 30 minutes under operating temperature conditions or at not less than 30% of the nameplate rating. We were were not able to "cold start" the unit and operate it for at least 30 minutes. We were were not able to achieve the 30% minimum load requirement during this test with available loads. The transfer switch(es) were were not electrically operated from the normal/standard position to the alternate position and then returned to to the normal/standard position. Additional testing and/or repairs may be necessary to ensure compliance with NFPA 110.

Signature: _____