

## SSIT-1001(b)5 Standby Power Operation

### Purpose

These instructions describe the tests required to ensure the grade crossing warning system switches over to standby battery with a loss of AC Power

### Test Intervals

Tests are performed when installed, as required, and at least once a month as prescribed in *SSIT-7 Signal System Inspection and Test Intervals*.

### Rail Safety

Employee shall ensure the site is safe for employees, the public, vehicular traffic and train operations as defined in *SSIT-8 Protecting Train Operations* prior to performing tests and inspections.



**CAUTION: Never turn AC power off or on while the crossing is activated.**

### Procedure

The following tests are to be performed at each crossing warning system location:

Step	Procedure
1. Check Initial State	<ul style="list-style-type: none"> <li>Check bungalow has AC power upon arrival.</li> <li><b>If AC disconnected:</b> Restore AC power or deploy generator. Report outage to the ONR S&amp;C Supervisor and note in site Log Book.</li> </ul>
2. Activate Warning System	<ul style="list-style-type: none"> <li>Open Test Switch (or open "XTR/XR" controls)</li> <li><b>If crossing not activated:</b> Protect crossing until resolved. Report to the ONR S&amp;C Supervisor. Record in site Log Book.</li> </ul>
3. Check Operation	<ul style="list-style-type: none"> <li>→ Check lights, bells, and gates operate properly.</li> <li>→ Check PO light indication is on.</li> </ul>
4. Restore Warning System	<ul style="list-style-type: none"> <li>Close Test Switch.</li> </ul>
5. Switch to Standby Power	<ul style="list-style-type: none"> <li>Turn AC power off, and wait 5 minutes for standby battery bank voltage to stabilize prior to performing step 6. Perform in conjunction with other SSIT 1001(b) equipment tests.</li> </ul>
6. Reactivate Warning System	<ul style="list-style-type: none"> <li>Open Test Switch (or open "XTR/XR" controls)</li> </ul>
7. Check Crossing	<ul style="list-style-type: none"> <li>→ Check lights, bells, and gates operate properly.</li> <li>→ Check PO light indication is off.</li> </ul>
8. Restore Warning System	<ul style="list-style-type: none"> <li>Close Test Switch.</li> </ul>
9. Restore AC Power	<ul style="list-style-type: none"> <li>Turn AC power back on.</li> </ul>

*Continued on next page...*

**ONR Signal Standards  
Signal System Inspections & Tests (SSIT)**

Step	Procedure
10. Update Log Book	<ul style="list-style-type: none"><li>• Add any notes of issues observed, or adjustments made.</li></ul>
11. Complete Test Form	<ul style="list-style-type: none"><li>• Record the test as completed on SSIT test form.</li></ul>