

SSIT-1001(c)1 Battery Test - Exhaustion

Purpose

These instructions describe the battery tests and assessments required at grade crossing warning systems.

Test Intervals

Tests are performed when installed, as required, and at least once every three (3) months 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.

Procedure

The following tests are to be performed for each battery at a grade crossing warning system location:

Step	Procedure
1. Monthly Battery Tests	<ul style="list-style-type: none"> Monthly Battery tests are to be performed prior to assessing battery exhaustion. Refer to <i>SSIT-202 Primary Batteries - Inspecting and Testing</i> and <i>SSIT-203 Secondary Batteries - Inspecting & Testing</i> for procedures.
2. Review Past Data	<p>→ Review past voltages for battery bank from previous months' tests. → Check there are no sudden drops over the last four months' readings.</p> <p>If battery shows trend of exhaustion: Contact the ONR S&C Supervisor. Deep discharge test may be required.</p>
3. Update Battery Card	<ul style="list-style-type: none"> Add any notes of issues observed, or adjustments made on battery card.
4. Complete Test Form	<ul style="list-style-type: none"> Record the test as completed on Grade Crossing Warning System Test Form.