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SSIT-1001(b)3 Bell Operation

Purpose

These instructions describe the tests required to ensure the bell(s) at grade crossing warning systems operate as intended.

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.

Equipment Manuals

A copy of the bell manufacturer's manual should be on hand for reference when performing tests.

Procedure

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

Step	Procedure
1. Activate Warning System	• Open test switch. **If warning system fails to activate:** Protect crossing until resolved. Report to the ONR S&C Supervisor. Record in site Log Book.
2. Check Bell Operation	→ Check bell is adjusted loud enough to be heard from both sides of the crossing. → Check bell rings continuously for as long as lights are flashing. → Check bell gong rate is uniform and operates between 100 and 325 strokes per minute. **If error in bell operation:** Proceed to *Bell Adjustments* and adjust or repair prior to continuing tests. **If error persists:** Contact the ONR S&C Supervisor and enter in Log Book.
3. Restore Warning System	• Close test switch.
4. Check Bell on Standby Power	→ Check conspicuity and operation when system is switched to standby power. Refer to *SSIT-1001(b)5 Standby Power Operation* for procedure.
5. Update Log Book	• Add any notes of issues observed, or adjustments made.
6. Complete Test Form	• Record the test as completed on Grade Crossing Warning System Test Form.