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SSIT-1001(g)2 Gate Mechanism - Calibration

Purpose

These instructions describe the gate mechanisms tests and inspections required at grade crossing warning systems with gates to verify they are functioning properly and are in good condition.

Test Intervals

Tests are performed when installed, as required, and at least once every four (4) years 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. Proper fall arrest protocols must be followed when performing inspections at height.

Equipment Manuals

A copy of the gate mechanism 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 equipped gates:

Step	Procedure
1. Check Mechanical clearances	→ Check mechanical clearances fall within specifications as outlined in the manufacturer's manual. **If clearances outside of tolerances:** Calibrate gate to operate within specifications.
2. Check Gate Torque	→ Check gate torques fall within specifications as outlined in the manufacturer's manual. **If torque values outside of tolerances:** Torque gate to operate within specifications.
3. Update Log Book	• Add any notes of issues observed, or adjustments made.
4. Complete Test Form	• Record the test as completed on Grade Crossing Warning System Test Form.