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ONR Signal Standards Signal System Inspections & Tests (SSIT)

SSIT-1001(b)7 **Vehicle Traffic Systems - Preemption**

Purpose

These instructions describe the tests for verifying the vehicle traffic system pre-emption or advanced preemption circuit operation at grade crossing warning systems, where equipped.

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.

Procedure

The following tests are to be performed at each crossing warning system location equipped with vehicle traffic pre-emption or advance pre-emption control circuits for external vehicle traffic controllers or active advance warning systems:

Step	Procedure
1. Check W and Terminat	from environmental or physical damage.
Activate Warning System	If train traffic: visual inspection shall be performed at a safe distance from rail. If no train traffic: Open Test Switch.
3. Check P emption functions	applicable).
4. Restore Warning System	If train traffic: wait for train to pass crossing. If no train traffic: Restore Test Switch

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Step	Procedure
5. Check Pre- emption Approach DC Circuits (if applicable)	 Shunt farthest DC track for pre-emption. → Check vehicle traffic control lights cycle operate as per design (if applicable). → Check AAWS lights flash (if applicable). • Remove shunt. → Check vehicle traffic control lights cycle returns to regular operation (if applicable). → Check AAWS lights return to dark state (if applicable). • Repeat for each approach.
6. Update Log Book	Add any notes of issues observed, or adjustments made.
7. Complete Test Form	Record the test as completed on Grade Crossing Warning System Test Form.