

SSIT-1106 Inspecting Cantilever Masts

Purpose

These instructions describe the inspections of cantilever masts and signals used in grade crossing warning systems to ensure they 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.

Procedure

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

Step	Procedure
1. Inspect Cantilever Masts	<ul style="list-style-type: none"> → Check mast is free of excess rust. → Check mast has not sustained damage. → Check there are no visible stress cracks at the base, arm junction, or any weld points. → Check mast is straight and secure. <p>If mast shows excess wear: Report to the ONR S&C Supervisor immediately.</p>
2. Inspect Ladder	<ul style="list-style-type: none"> → Check ladders have security panels and lock in place, or cannot be accessed without proper equipment. → Check ladders are securely in place. → Check ladders are installed to allow for three points of contact throughout. <p>If ladder shows excess wear: Report to ONR S&C Supervisor immediately.</p>
3. Inspect Platform	<ul style="list-style-type: none"> → Check platform guard rails are damage free and well secured. → Check weld points and fastening hardware do not show wear. → Check platform for trip hazards. → Check flashing light arm assemblies and support brackets are properly secured and in good condition. → Check the condition of all flashing light housings and light units. → Check platform has proper fall arrest tie off. <p>If platform shows excess wear: Report to the ONR S&C Supervisor immediately.</p>
4. Update Log Book	<ul style="list-style-type: none"> • Add any notes of issues observed, or adjustments made.
5. Complete Test Form	<ul style="list-style-type: none"> • Record the test as completed on Grade Crossing Warning System Test Form.