

SSIT-901 Cable Housing

Purpose

Equipment housings shall be inspected to verify that they are level, weather tight, and there are no major defects or damage that may result in cables or equipment being at risk due to environmental or pest damage.

Test Intervals

Cable housings shall be inspected when installed, as required, and at least once every twelve (12) months.

In locations where there is evidence of frost heaving, additional inspections shall be scheduled seasonally.

Refer to *SSIT-7 Signal System Inspection and Test Intervals* for all 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 tasks are to be performed at each cable housing:

Step	Procedure
1. Inspect for Frost Heaving	<ul style="list-style-type: none"> → Check natural or painted markings for evidence of lift. If lift is greater than 1”: Inspect terminations for strain, increase frequency of inspections to ensure lift is reduced after thaw. If evidence of severe frost heave or cable strain: consider alternate approach for routing ground cables (i.e. splices, junction boxes, etc.)
2. Inspect Cable Entrance	<ul style="list-style-type: none"> → Check sealing compound is providing proper seal for each cable. → Check conduits are properly clamped and fitted to equipment. → Check cable fitting are tight. → Check gaskets in accordance with <i>SSIT-1104 Inspecting Seals</i>. → Check plates installed to cover cable chutes are properly secured and sealed. → Check there is no strain or tension on entrance cables.
3. Inspect Case Exterior	<ul style="list-style-type: none"> → Check outdoor painted surfaces in accordance with <i>SSIT-1103 Inspecting Painted Surfaces</i>. → Check door locking mechanism operates properly. → Check hinges move freely and have sufficient lubrication. → Check posts, poles, piers, and foundation are in good condition. → Check bungalow is sitting level.

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**ONR Signal Standards
Signal System Inspections & Tests (SSIT)**

Step	Procedure
4. Inspect Case Interior	<ul style="list-style-type: none"> → Check indoor painted surfaces are properly painted. → Check vent filters are clean and allowing free air flow (if installed). → Check mechanical parts of fan are operating properly. → Check the housing is free of moisture caused by leaks or condensation. → Check insulation is in good condition (if installed). → Check bungalow is free of rust, corrosion, or excess dirt. → Check bungalow does not have any battery spills. → Check bungalow is free of insects and rodents.
5. Inspect Interior Circuitry	<ul style="list-style-type: none"> → Check equipment is secured and in good working condition. → Check no cable insulation has pulled away, exposing excessive bare copper wire at any termination. → Check terminals are tight, secured, and corrosion free. → Check wires are properly tagged.
6. Inventory Tools and Materials	<ul style="list-style-type: none"> → Check tools required for housing maintenance are present and are stored so they do not interfere with safe operation (when applicable). → Check no additional tools or materials are stored in housing.
7. Update Log Book	<ul style="list-style-type: none"> • Add any notes of issues observed, or adjustments made.
8. Complete Test Form	<ul style="list-style-type: none"> • Record the test as completed on SSIT test form.