

## SSIT-1101 Inspecting Foundations

### Purpose

Foundations are inspected for proper installation and maintenance to ensure the foundation does not present a hazard to the signal system or personal safety due to poor condition.

### Test Intervals

Foundations shall be inspected at time of installation and routinely when inspecting other elements of equipment with foundations. 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 tests are to be performed at each foundation:

| Step                     | Procedure   |
|--------------------------|---|
| 1. Check Level           | <ul style="list-style-type: none"> <li>→ Check foundation is level.</li> <li>→ Check equipment using levelling nuts is level above foundation.</li> </ul>   |
| 2. Check Materials       | <ul style="list-style-type: none"> <li>→ Check nuts, bolts, and washers are properly installed and in good condition.</li> <li>→ Check base plates and cable conduits are in good condition.</li> </ul>   |
| 3. Check Foundation      | <ul style="list-style-type: none"> <li>→ Check metal foundations for bends, twists, broken welds, rust and damage.</li> <li>→ Check concrete foundations for cracks or deterioration</li> <li>→ Check wood foundations for rot and other damage.</li> </ul> |
| 4. Check Retaining Walls | <ul style="list-style-type: none"> <li>→ Check retaining walls for bends, twists, broken welds, rust and damage.</li> <li>→ Check for signs of washout that may require retaining wall.</li> </ul>  |