

**§ 236.74 Protection of insulated wire; splice in underground wire.**

Insulated wire shall be protected from mechanical injury. The insulation shall not be punctured for test purposes. Splice in underground wire shall have insulation resistance at least equal to the wire spliced.

**§ 236.75 [Reserved]****§ 236.76 Tagging of wires and interference of wires or tags with signal apparatus.**

Each wire shall be tagged or otherwise so marked that it can be identified at each terminal. Tags and other marks of identification shall be made of insulating material and so arranged that tags and wires do not interfere with moving parts of apparatus.

[49 FR 3384, Jan. 26, 1984]

## INSPECTIONS AND TESTS; ALL SYSTEMS

**§ 236.101 Purpose of inspection and tests; removal from service of relay or device failing to meet test requirements.**

The following inspections and tests shall be made in accordance with specifications of the carrier, subject to approval of the FRA, to determine if the apparatus and/or equipment is maintained in condition to perform its intended function. Electronic device, relay, or other electromagnetic device which fails to meet the requirements of specified tests shall be removed from service, and shall not be restored to service until its operating characteristics are in accordance with the limits within which such device or relay is designed to operate.

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**§ 236.102 Semaphore or searchlight signal mechanism.**

(a) Semaphore signal mechanism shall be inspected at least once every six months, and tests of the operating characteristics of all parts shall be made at least once every two years.

(b) Searchlight signal mechanism shall be inspected, and the mechanical movement shall be observed while operating the mechanism to all positions, at least once every six months. Tests of

the operating characteristics shall be made at least once every two years.

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**§ 236.103 Switch circuit controller or point detector.**

Switch circuit controller, circuit controller, or point detector operated by hand-operated switch or by power-operated or mechanically-operated switch-and-lock movement shall be inspected and tested at least once every three months.

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**§ 236.104 Shunt fouling circuit.**

Shunt fouling circuit shall be inspected and tested at least once every three months.

**§ 236.105 Electric lock.**

Electric lock, except forced-drop type, shall be tested at least once every two years.

**§ 236.106 Relays.**

Each relay, the functioning of which affects the safety of train operations, shall be tested at least once every four years except:

(a) Alternating current centrifugal type relay shall be tested at least once every 12 months;

(b) Alternating current vane type relay and direct current polar type relay shall be tested at least once every 2 years; and

(c) Relay with soft iron magnetic structure shall be tested at least once every 2 years.

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**§ 236.107 Ground tests.**

(a) Except as provided in paragraph (b) of this section, a test for grounds on each energy bus furnishing power to circuits, the functioning of which affects the safety of train operation, shall be made when such energy bus is placed in service, and shall be made at least once every three months thereafter.

(b) The provisions of this rule shall not apply to track circuit wires, common return wires of grounded common single-break circuits, or alternating