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## **1.0 Introduction**

The transit priority and pre-emption field test only tests for proper detection and triggering of a transit priority or emergency pre-emption response to a displayed pattern.

## **2.0 Field Tests**

### **2.1 General**

- The test is to be co-ordinated with the Toronto Transportation, Communications System Operator.
- With the timing card and related documentation, check and verify timing, phasing and pre-emption sequencing operation.

### **2.2 Transit Priority**

- With a transit vehicle travelling through the detection zone for each direction, check transit detection equipment in the controller cabinet to ensure activation of a pre-emption sequence or signal plan change input to the traffic signal controller and proper timing/phasing. This input should de-activate as the transit vehicle travels past the detection zone.
- Confirm that the traffic signal controller responds to the transit detection systems inputs at the appropriate points (as identified in the in-cabinet documentation).
- Timing and equipment faults shall be reported to the Operator – Communications Systems immediately.
- Replace faulty equipment as required.
- Complete traffic signal controller log noting results of test.

### **2.3 Fire Hall Emergency Vehicle Pre-emption**

- Activate the Fire Hall pushbutton(s) and check the traffic controller to ensure activation of a pre-emption sequence or signal plan change input to the traffic signal controller and the proper timing/phasing. This input should de-activate once the pre-empt has been served.
- Confirm that the traffic signal controller responds to the pre-empt inputs at the appropriate points (as identified in the in-cabinet documentation).
- Timing and equipment faults shall be reported to the Operator – Communications Systems immediately.
- Replace faulty equipment as required.
- Complete traffic signal controller log noting results of test.

## **2.4 Railway Pre-emption**

- This test shall only be conducted with the appropriate Railway personnel on-hand to assist and witness the test.
- With the Railway Pre-emption activated and check the traffic controller to ensure activation of a pre-emption sequence or signal plan change input to the traffic signal controller and the proper timing/phasing. This input should only de-activate once the train has cleared the detection zone.
- Confirm that the traffic signal controller responds to the pre-empt inputs at the appropriate points (as identified in the in-cabinet documentation).
- Timing and equipment faults shall be reported to the Operator – Communications Systems immediately.
- Replace faulty equipment as required.
- Complete traffic signal controller log noting results of test.

## **2.5 Additional Tests**

- Inspect the condition of the Flash Transfer Relays. If contacts show burns, wear or corrosion, replace.
- Check all terminal blocks for secure connection and corrosion.
- Inspect Signal Indications per TTR 801.305, Section 3.1.1.
- Final check of signal operation, push buttons, detectors and any special equipment, e.g.: blank-out signs.
- Final check of controller cabinet for proper door operation and visible damage or offensive graffiti.
- Lubricate door hinges and locks.