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1.0 Overview

This recommendation describes the maintenance procedure during a power failure situation.

2.0 Power Failure

2.1 Traffic Signals Off or Flashing

1. Check incoming voltage on line side of the intersection main disconnect. Normal range should be 114 to 126 volts. If no power, contact and advise responsible hydro authority and call Toronto Police Services for traffic control.
2. If voltage is low, call hydro authority.
3. If no problems in (1) and (2), check incoming voltage on circuit breaker within traffic controller cabinet. If low voltage or no power found, then inspect and troubleshoot line feed from the main intersection disconnect. Call Toronto Police Services for traffic control if no power found. Call hydro authority if voltage is not within the specified range.

2.2 Scheduled Power Shut Down

1. Arrangements should be made to have a Toronto Police Services officer on hand to perform traffic control.
2. Advise police officer of your plans. Record and take reading of incoming line voltage on intersection main disconnect and turn off the traffic signals.

3.0 Restoration of Power

1. Following an emergency local power failure, the traffic signals will re-energize as power is restored. In this event the signals should return to normal operation. If operating normally take and record line side reading within controller cabinet. If the traffic signals are in flash go to subsection 2.1.
2. After a scheduled shut down with police officer on hand, record and take reading of incoming line voltage within the controller cabinet. If acceptable, re-energize signals, if voltage low return to subsection 2.1.
3. After recording acceptable voltage inspect all signal displays and equipment and note ISI (Inspected Signal Indications).