

ELECTRICAL MAINTENANCE SPECIFICATION E-310

STREET, ROADWAY, AREA AND SIGN LIGHTING MAINTENANCE

1. OBJECTIVE

To ensure that street, roadway, area and sign lighting is operational and functions in accordance with their design and Ministry standards.

2. DETAILED PERFORMANCE SPECIFICATIONS

2.1 Routine Maintenance Services

The Contractor must:

- a) repair or replace any street, roadway, area and sign lighting that constitutes a Safety Hazard to the highway user and Respond within 1 hour;
- b) repair or replace street, roadway, area and sign lighting and their components that create Traffic Disruptions and Respond within 1 hour;
- c) except as noted in Subsections 2.1 (d) and (e) below, repair or replace street, roadway, area and sign lighting and/or their components that do not create a Safety Hazard, do not cause Traffic Disruptions, but have identified deficiencies and Respond within 30 days;
- d) Respond within 1 hour when:
 - (i) half or more of the luminaires are not operating at a signalized intersection;
 - (ii) any luminaires directly over a marked pedestrian crossing is not operating;
 - (iii) 2/3 or more of luminaires are not operating at an un-signalized intersection, interchange, or roadway between interchanges or intersections; and
 - (iv) 3 adjacent luminaires are not operating.
- e) Respond within 7 days when:
 - (i) less than 1/2 of the luminaires are not operating at a signalized intersection, signalized pedestrian crossing, or in areas of continuous lighting;
 - (ii) less than 2/3 of the luminaires are not operating at an un-signalized intersection, interchange, or roadway between interchanges or intersections;
 - (iii) 2 adjacent luminaires are not operating; and
 - (iv) warning sign luminaires are not operating.

- f) repair all other deficiencies within 30 days or as soon as possible thereafter if inclement weather prevents such activities;
- g) perform Preventative Maintenance as required;
- h) replace all HID, street, roadway, area and sign lighting lamps every 48 months with 25% being replaced each year;
- i) mark the replacement lamps with the date at the time of replacement;
- j) notify the RTMC of any malfunctioning street, roadway, area and sign lighting causing a Traffic Disruption within 5 minutes from the time the malfunction was detected by or reported to the Contractor and inform the RTMC when repaired;
- k) remove or cover graffiti in accordance with the performance time frames listed in the *Highway Maintenance Specification – Litter Collection and Graffiti Removal*; and
- l) document all activities related to electrical maintenance of street, roadway, area and sign lighting including but not limited to field inspections, Patrols, testing, complaints received / responses made, and all changes made to the equipment and operations in a timely manner to the Province's satisfaction.

2.2 Materials

Refer to Article 3 of the Introduction to the Specifications.