

## ELECTRICAL MAINTENANCE SPECIFICATION E-230

### AVIATION, NAVIGATIONAL AND PIER LIGHTING MAINTENANCE

#### 1. OBJECTIVE

To ensure that aviation lighting, navigational lighting and pier 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 aviation, navigational, and pier lighting and their components that constitute or have the potential to constitute a Safety Hazard to the highway, airway or navigable waterway user and Respond within 1 hour;
- b) repair or replace aviation, navigational and pier lighting and their components that create traffic or waterway disruptions and Respond within 1 hour;
- c) repair or replace aviation, navigational and pier lighting and their components that do not operate as designed, but are not a Safety Hazard, and Respond on the next Work Day;
- d) repair or replace aviation, navigational and pier lighting and/or their components that operate as designed, do not create a Safety Hazard, do not cause Traffic Disruptions, and are structurally sound but have identified deficiencies and Respond within 30 days;
- e) perform Preventative Maintenance as required;
- f) replace all HID lamps every 48 months;
- g) replace all non-LED lamps other than HID lamps once every 12 months;
- h) replace LED lamps as required;
- i) mark the replacement lamps with the date at the time of replacement;
- j) notify the RTMC of any malfunctioning aviation, navigational and pier lighting causing a major 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 aviation lighting, navigational lighting and pier 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.