

## **BC MINISTRY OF TRANSPORTATION**

### **Electrical Maintenance Specification E-130 (Version 6 – May/05)**

#### **FLASHING BEACON MAINTENANCE**

##### **1. OBJECTIVE**

To ensure that Flashing Beacons are operational and function in accordance with their design and Ministry Standards.

##### **2. GENERAL PERFORMANCE SPECIFICATIONS**

###### **2.1 Routine Maintenance Services**

All services for this Electrical Maintenance Specification are routine.

###### **2.2 Additional Services**

Not applicable to this Electrical Maintenance Specification.

##### **3. DETAILED PERFORMANCE SPECIFICATIONS**

###### **3.1 Routine Maintenance Services**

The Contractor must:

- a) Repair or replace Flashing Beacons and their components;
- b) perform preventative maintenance;
- c) replace non-LED lamps;
- d) replace LED signal head light sources;
- e) notify the PHCC of any malfunctioning Flashing Beacons causing a traffic disruption and inform the PHCC when repaired;
- f) remove or cover graffiti in accordance with the *Highway Maintenance Specification – Litter collection and Graffiti Removal*;

- g) document all activities related to electrical maintenance of Flashing Beacons including but not limited to field inspections, patrols, testing, complaints received / responses made, and all changes made to the equipment and operations.

### **3.1.1 Performance Time Frames**

The following establishes the maximum time, from the time the deficiency was detected or reported to the Contractor, within which the Contractor must Respond to deficiencies:

- a) Flashing Beacons and their components that constitute or have the potential to constitute an immediate safety hazard to the Highway User, within 1 hour;
- b) Flashing Beacons and their components that do not operate as per their original design intent but are not immediate safety hazards, on the next regularly scheduled work day;
- c) Flashing Beacons and/or their components that operate as per the original design intent, do not create a safety hazard, and are structurally sound but have identified deficiencies, within 3 months;

The Contractor must:

- a) perform preventative maintenance as required;
- b) replace all non-LED lamps of signal heads once every 12 months;
- c) replace LED signal head light sources as required;
- d) notify the PHCC of any malfunctioning Flashing Beacons causing a traffic disruption within 5 minutes from the time the malfunction was detected by or reported to the Contractor and inform the PHCC when repaired;
- e) remove or cover graffiti in accordance with the Performance Time Frames listed in the *Highway Maintenance Specification – Litter Collection and Graffiti Removal*; and

- f) document all activities related to electrical maintenance of Flashing Beacons immediately.

### **3.2 Additional Services**

Not applicable to this Electrical Maintenance Specification.

### **3.3 Materials**

Refer to the Introduction.

