

BC MINISTRY OF TRANSPORTATION

Electrical Maintenance Specification E-510 (Version 6 – May/05)

OPEN CLOSED SIGN MAINTENANCE

1. OBJECTIVE

- To ensure Open Closed Signs 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 Open Closed Signs and their components that constitute or have the potential to constitute a safety hazard to the Highway User;
- b) repair or replace Open Closed Signs and their components that create traffic disruptions;
- c) repair or replace Open Closed Signs and their components that do not operate as per their original design but are not immediate safety hazards or causing traffic disruptions;
- d) repair or replace Open Closed Signs and/or their components that do not create a safety hazard, do not cause traffic disruptions, and are structurally sound but have identified deficiencies;
- e) replace all high pressure sodium and mercury vapour lamps;

- f) notify the PHCC of any malfunctioning Open Closed Signs causing a traffic disruption and inform the PHCC when repaired;
- g) remove or cover graffiti in accordance with the *Highway Maintenance Specification – Litter collection and Graffiti Removal*; and
- h) document all activities related to electrical maintenance of Open Closed Signs 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) repair or replace Open Closed Signs and their components that constitute or have the potential to constitute a safety hazard to the Highway User within 1 hour;
- b) repair or replace Open Closed Signs and their components that create traffic disruptions within 1 hour;
- c) repair or replace Open Closed Signs and their components that do not operate as per their original design but are not immediate safety hazards or causing traffic disruptions within 7 working days or as soon as practical if weather conditions do not permit;
- d) repair or replace Open Closed Signs and/or their components that do not create a safety hazard, do not cause traffic disruptions, and are structurally sound but have identified deficiencies within 3 months;

The Contractor must:

- a) perform preventative maintenance as required;
- b) replace all high pressure sodium and mercury vapour lamps every 48 months;
- c) notify the PHCC of any malfunctioning Open Closed Signs 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;
- d) remove or cover graffiti in accordance with the Performance Time Frames listed in the *Highway Maintenance Specification – Litter Collection and Graffiti Removal*; and
- e) document all activities related to electrical maintenance of Open Closed Signs immediately.

3.2 Additional Services

- Not applicable to this Electrical Maintenance Specification.

3.3 Materials

- Refer to the Introduction.