



MAINTENANCE MANUAL FOR STANDARD ELECTRICAL EQUIPMENT

Part 3: Corrective Maintenance Schedules

March 2001

**MAINTENANCE MANUAL FOR STANDARD ELECTRICAL EQUIPMENT
PART 3: CORRECTIVE MAINTENANCE SCHEDULES**

1	POWER DISTRIBUTION.....	1
	1.1 JUNCTION BOXES.....	1
	1.2 SERVICE PANELS AND KIOSKS.....	2
	1.3 OVERHEAD CONDUCTORS AND SUPPORT CABLES	2
2	TRAFFIC SIGNALS	3
	2.1 TRAFFIC / PEDESTRIAN AND AUDIBLE SIGNALS.....	3
	2.2 ADVANCE WARNING SIGNS	5
	2.3 ISLAND FLASHERS.....	5
3	LIGHTING.....	6
	3.1 STREET LIGHTING	6
	3.2 SIGN LIGHTING.....	7
	3.3 HIGH MAST LIGHTING	7
	3.4 WALL MOUNT AND UNDERPASS LUMINAIRES	8
4	POLES.....	9
	4.1 ALL POLES	9
5	MISCELLANEOUS	10
	5.1 ROADWAY OPEN/CLOSED SIGNS.....	10
	5.2 WEIGH SCALE OPEN/CLOSED SIGNS	10

1 POWER DISTRIBUTION

1.1 JUNCTION BOXES

CONDITION		RESPONSE
1.	Emergency - an existing or potential safety hazard	Within 1 hour
2.	Missing or loose lid. High Pedestrian Volume Area	Within 1 hour
3.	Missing or loose lid. Low Pedestrian Volume Area	Next working day
4.	Junction box is damaged, but not a safety hazard	Within 4 weeks
5.	All other conditions	Next scheduled CM

POWER DISTRIBUTION

1.2 SERVICE PANELS AND KIOSKS

CONDITION		RESPONSE
1.	Emergency - an existing or potential safety hazard	Within 1 hour
2.	Service panel door is not secure or lockable at a traffic signal	Within 1 hour
3.	Service panel door is not secure or lockable at a lighting installation	Next working day
4.	Service panel enclosure is damaged, but not a safety hazard	Next scheduled CM
5.	All other conditions	Next scheduled CM

1.3 OVERHEAD CONDUCTORS AND SUPPORT CABLES

CONDITION		RESPONSE
1.	Emergency - an existing or potential safety hazard	Within 1 hour
2.	Conductor or cable is damaged but not a safety hazard	Within 5 working days
3.	All other conditions	Next scheduled CM

2 TRAFFIC SIGNALS

2.1 TRAFFIC/PEDESTRIAN AND AUDIBLE SIGNALS

CONDITION		RESPONSE
1.	Emergency - an existing or potential safety hazard	Within 1 hour
2.	All traffic signal heads are blank	If hydro failure – no response
3.	Any traffic signal head is blank or showing more than 1 colour	Within 1 hour
4.	Traffic signal head alignment is incorrect producing conflicting displays	Within 1 hour
5.	Two audible signals on the same crossing not operating	Within 1 hour
6.	Traffic signal is cycling without vehicle actuation, causing major disruption to traffic flow	Within 1 hour
7.	Traffic signal is cycling without vehicle actuation, causing minor disruption to traffic flow	Next working day
8.	Pedestrian DON'T WALK is not operating	Next working day unless designated by region as a high pedestrian volume area during non working hours
9.	Pedestrian WALK is not operating	Next working day unless designated by region as a high pedestrian volume area during non working hours

TRAFFIC SIGNALS

10.	One audible signal is not operating	Next working day
11.	Audible signal at incorrect alignment	Next working day
12.	Traffic signal head or backboard is damaged, still functioning, and not considered a safety hazard	Within 5 working days
13.	Traffic signal controller cabinet is damaged, but not a safety hazard	Next scheduled CM
14.	All other conditions	Next scheduled CM

2.2 ADVANCE WARNING SIGNS

CONDITION		RESPONSE
1.	Emergency - an existing or potential safety hazard	Within 1 hour
2.	Both traffic signal flashers are not operating	Within 1 hour
3.	One traffic signal flasher is not operating	Next working day
4.	Sign is damaged, still functioning, and not considered a safety hazard.	Within 5 working days
5.	All other conditions	Next scheduled CM

2.3 ISLAND FLASHERS

CONDITION		RESPONSE
1.	Emergency - an existing or potential safety hazard	Within 1 hour
2.	Island flasher is not operating	Next working day
3.	Island flasher is damaged, still functioning, and not considered a safety hazard	Within 5 working days
4.	All other conditions	Next scheduled CM

3 LIGHTING

3.1 STREET LIGHTING

CONDITION		RESPONSE
1.	Emergency - an existing or potential safety hazard	Within 1 hour
2.	50% or more of the luminaires at a signalized intersection are not operating	Within 1 hour
3.	Less than 50% of the luminaires at a signalized intersection are not operating	Next scheduled CM
4.	66% or more of the luminaires at an unsignalized intersection or interchange are not operating	Within 1 hour
5.	Less than 66% of the luminaires at an unsignalized intersection or interchange are not operating	Next scheduled CM
6.	Any luminaires between illuminated intersections or interchanges are not operating	Within 7 working days
7.	All other conditions	Next scheduled CM

LIGHTING

3.2 SIGN LIGHTING

CONDITION		RESPONSE
1.	Emergency - an existing or potential safety hazard	Within 1 hour
2.	Luminaire is not operating	Within 5 working days
3.	Luminaire is cycling on and off	Within 5 working days
4.	All other conditions	Next scheduled CM

3.3 HIGH MAST LIGHTING

CONDITION		RESPONSE
1.	Emergency - an existing or potential safety hazard	Within 1 hour
2.	40% or more of the luminaires, at an installation with more than two units, are not operating	Within 1 hour
3.	Two or more luminaires are not operating at an installation with one or two units	Within 1 hour
4.	Luminaire is cycling on and off	Within 2 working days
5.	Any luminaire at an installation is not operating	Within 2 weeks
6.	All other conditions	Next scheduled CM

LIGHTING

3.4 WALL MOUNT AND UNDERPASS LUMINAIRES

CONDITION		RESPONSE
1.	Emergency - an existing or potential safety hazard	Within 1 hour
2.	50% or more of the luminaires, at an installation are not operating	Next working day
3.	Less than 50% of the luminaires are not operating at an installation	Within 1 week
4.	Luminaire is cycling on and off	Within 1 week
5.	All other conditions	Next scheduled CM

4 POLES

4.1 ALL POLES

CONDITION		RESPONSE
1.	Emergency - an existing or potential safety hazard	Within 1 hour
2.	Traffic signal pole is damaged, but is not a safety hazard	Next scheduled CM
3.	Lighting pole is damaged, but is not a safety hazard	Next scheduled CM
4.	Sign pole is damaged, but is not a safety hazard	Next scheduled CM
5.	All other conditions	Next scheduled CM

5 MISCELLANEOUS

5.1 ROADWAY OPEN/CLOSED SIGNS

CONDITION		RESPONSE
1.	Emergency - an existing or potential safety hazard	Within 1 hour
2.	Not operating	Within 1 hour
3.	All other conditions	Next scheduled CM

5.2 WEIGH SCALE OPEN/CLOSED SIGNS

CONDITION		RESPONSE
1.	Emergency - an existing or potential safety hazard	Within 1 hour
2.	Not operating	Next working day
3.	All other conditions	Next scheduled CM