

TRAFFIC SAFETY COMMITTEE

*HIS WORSHIP, THE MAYOR
AND COUNCILLORS*

SUBJECT: UNINTERRUPTED POWER SUPPLY FOR TRAFFIC SIGNALS (2011)

RECOMMENDATION:

1. THAT Council authorize staff to bring down a Capital Reserve Bylaw in the amount of \$70,000 (inclusive of HST) to finance the installation of uninterrupted power supply at 10 signalized intersections as outlined in this report.

REPORT

The Traffic Safety Committee, at its meeting held on 2011 March 01, received and adopted the attached report to seek funding approval for the 2011 traffic signal uninterrupted power supply installation.

The purpose of the installations is to enhance safety and reduce confusion at signalized intersections in the event of a power failure. This report recommends 10 locations for uninterrupted power supply (UPS) installations in 2011. To date, the City has completed UPS installations at 20 intersections in the last 2 years, and plan to install a total of 50 by 2013.

Respectfully submitted,

Councillor S. Dhaliwal
Chair

Councillor C. Jordan
Vice Chair

Councillor P. McDonell
Member

Copied to:	City Manager Deputy Finance Director Engineering City Solicitor
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TO: CHAIR AND MEMBERS
TRAFFIC SAFETY COMMITTEE

DATE: 2011 February 23

FROM: DIRECTOR ENGINEERING

FILE: 9110 20
38000 09

SUBJECT: UNINTERRUPTED POWER SUPPLY FOR TRAFFIC SIGNALS (2011)

PURPOSE: To seek funding approval for the 2011 traffic signal uninterrupted power supply installation.

RECOMMENDATION:

1. **THAT** the Committee recommend to Council that staff be authorized to bring down a Capital Reserve Bylaw in the amount of \$70,000 (inclusive of HST) to finance the installation of uninterrupted power supply at 10 signalized intersections as outlined in this report.

REPORT

Uninterrupted power supply (UPS) for traffic signals are specialized battery units that allow traffic signals to continue operating in the event of a power failure. The UPS systems can maintain full signal operation at an intersection for 4 hours, followed by 4 hours of operation in a flashing all-red mode. The purpose of the installations is to enhance safety and reduce confusion at signalized intersections in the event of a power failure. To date, the City has completed UPS installations at 20 intersections in the last 2 years, and plan to install a total of 50 by 2013.

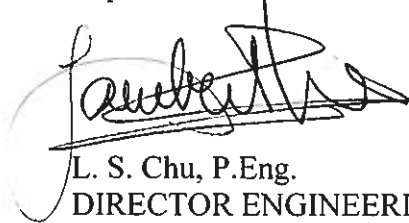
Each unit is estimated to cost \$7,000. The following list provides 10 locations recommended for UPS installations in 2011. Selection criteria are based on the complexity of the intersection using factors such as separate left turn phases, visibility constraints, and number of approach lanes where 4-way stop procedures may be operationally difficult during a power failure.

To: Chair and Members, Traffic Safety Committee
From: Director Engineering
Re: Uninterrupted Power Supply
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Proposed locations for installation in 2011 are:

1. Kingsway & Edmonds St
2. Kingsway & Nelson Ave
3. Kingsway & McMurray Ave
4. Kingsway & Sussex Ave
5. Marine Way & Glenlyon Pkwy
6. Gaglardi Way & Broadway (North)
7. Willingdon Ave & Moscrop/Deer Lake Pkwy
8. Willingdon Ave & Central Blvd
9. Willingdon Ave & Grange St
10. Royal Oak Ave & Oakland/Dover St

The total estimated cost of this project is \$70,000 inclusive of HST. It is recommended that this safety initiative be funded from Capital Reserves, and that the City pursue ICBC road safety improvement cost-share funding. This program is included in the 2011 Provisional Capital Plan.



L. S. Chu, P.Eng.
DIRECTOR ENGINEERING

MDS/br

Copied to: City Manager
Director Finance
City Solicitor