

TRAFFIC SAFETY COMMITTEE

*HIS WORSHIP, THE MAYOR
AND COUNCILLORS*

SUBJECT: UNINTERRUPTED POWER SUPPLY FOR TRAFFIC SIGNALS

RECOMMENDATION:

1. THAT Council approve the installation of uninterrupted power supply at 20 signalized intersections over two years as outlined in this report at a total cost of \$105,000 (inclusive of 5% GST) funded by Gaming Funds with 50% of the cost to be recovered from ICBC.

REPORT

The Traffic Safety Committee, at its meeting held on 2009 May 05, received and adopted the *attached* report improving safety at major intersections.

The Committee noted that in addition to the ICBC cost-share for funding, the signals along North Road will also be cost-shared with the City of Coquitlam.

Respectfully submitted,

Councillor S. Dhaliwal
Chair

Councillor C. Jordan
Vice Chair

Councillor P. McDonell
Member

Copied to: City Manager Director Engineering Director Finance

TO: CHAIR AND MEMBERS
TRAFFIC SAFETY COMMITTEE

DATE: 2009 April 28

FROM: DIRECTOR ENGINEERING

FILE: 9110 20
38000 20

SUBJECT: UNINTERRUPTED POWER SUPPLY FOR TRAFFIC SIGNALS

PURPOSE: To improve safety at major intersections

RECOMMENDATION:

1. **THAT** the Committee recommend that Council approve the installation of uninterrupted power supply at 20 signalized intersections over two years as outlined in this report at a total cost of \$105,000 (inclusive of 5% GST) funded by Gaming Funds with 50% of the cost to be recovered from ICBC.

REPORT

Uninterrupted power supplies (UPS) for traffic signals are specialized battery units that would allow traffic signals to continue operating in the event of a power failure. Specifically, the proposed units would maintain full signal operation at the intersection for four hours, followed by four hours of operation in a flashing all-red mode. The purpose of the installations is to enhance safety and reduce confusion at a signalized intersection in the event of a power failure.

ICBC has agreed to provide 50% cost-share funding for 10 units in 2009 and for an additional 10 units in 2010. Each unit is estimated to cost \$5,000. The following list provides the 20 locations recommended for UPS installations. They have been selected based on the complexity of the intersection including such factors as separate left turn phases or visibility constraints where 4-way stop procedures may be operationally difficult during a power failure.

Locations for installation in 2009

1. Marine Way & Marshland/North Fraser Way
2. Marine Way & Byrne Rd
3. Lougheed Hwy & Gaglardi Way
4. Lougheed Hwy & Willingdon Ave
5. Lougheed Hwy & Austin/Government
6. Lougheed Hwy & Sperling Ave
7. Lougheed Hwy & North Rd

To: Transportation Committee
From: Director Engineering
Re: Uninterrupted Power Supply


2009 April 28..... Page 2

8. North Rd & Austin Rd
9. Gaglardi Way & Burnaby Mtn Pkwy/University Dr
10. Lougheed Hwy & Madison Ave

Locations for installations in 2010

11. Lougheed Hwy & Holdom Ave
12. Lougheed Hwy & Production/Brighton
13. Lougheed Hwy & Gilmore Ave
14. Canada Way & Norland/Deer Lake Pkwy
15. Canada Way & Burris St
16. Canada Way & Douglas Rd
17. Canada Way & Edmonds St
18. Kingsway & Willingdon Ave
19. Hastings St & Willingdon Ave
20. Lougheed Hwy & Bell Ave

The total estimated cost of this project over two years is \$105,000 inclusive of GST. It is recommended that this safety initiative be funded from Gaming Funds. In addition to the ICBC cost-share for funding, the signals along North Rd will also be cost-shared with the City of Coquitlam. This project will be included in the 2009 5 year Capital Plan and appropriate adjustments will be made accordingly.



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

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Copied to: City Manager
Director Finance