



STAFF REPORT INFORMATION ONLY

Progress Report: Auditor General's Report – GPS for Non-Revenue Fleet and Equipment Management and Maintenance

Date:	May 27, 2015
To:	TTC Audit Committee
From:	Chief Executive Officer

Summary

The purpose of this report is to report back to the TTC Audit Committee on how the TTC will be using Global Positioning Systems (GPS) for fleet and equipment management and maintenance, as well as the progress for implementation.

Financial Impact

Sufficient funds are available under Capital Program 7.19 Asset Management Program - CTT061, as approved by Council on March 10-11, 2015, for the design and implementation of a GPS/AVL pilot program for 20 vehicles in 2015. Sufficient funds will be requested to complete the installation of GPS/AVL on the remainder of the fleet in the 2016-2025 budget submission. A new Capital Project under Bus Maintenance and Shops will be created.

The Chief Financial & Administration Officer has reviewed this report and agrees with the financial impact information.

Decision History

Staff recognized the need for improved tools to manage the Non-Revenue Vehicle and Equipment Fleet. Poor data collection and non-compliance to inspection schedules by user groups were resulting in inefficient maintenance practices. As a result, the following was requested and approved in the 2015 capital budget:

1. Purchase and install GPS on a pilot fleet of non-revenue vehicles and equipment.

2. Purchase and install an Automated Vehicle Locating (AVL) system on a pilot fleet of non-revenue vehicles and equipment.
3. Link the GPS/AVL system with the current (VWO) Vehicle Maintenance System to improve data collection and maintenance management.

Issue Background

Non-revenue vehicles and equipment are operated by numerous departments in the TTC. These vehicles are used for daily front line operations and maintenance of facilities and capital construction projects. Many of these activities are considered time sensitive by the user groups.

The maintenance of the non-revenue vehicles and equipment is performed by the Bus Maintenance & Shops department. Proper maintenance is dependent upon accurate mileage collection and compliance to inspection schedules. Due to operational and construction deadlines, user groups often failed to return non-revenue vehicles and equipment for scheduled inspection and maintenance. Vehicles and equipment would only be returned upon failure. The maintenance time needed to repair failed vehicles and equipment is generally more than that required for preventive maintenance. As a result, the user groups were forced to wait longer for their vehicles and equipment to be returned. This further encouraged user groups to not return their vehicles the next time it was due for preventive maintenance thereby creating a vicious cycle.

In addition to user group non-compliance, maintenance staff noted that some vehicles are not used consistently throughout the year. With no automated system for collecting mileage information, maintenance staff found it difficult to develop and enforce efficient inspection schedules.

The installation of a GPS/AVL system for the non-revenue fleet will assist with data collection and location of vehicles to ensure compliance with maintenance schedules.

GPS Implementation Status

- | | |
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| • Define Project Charter | Jun 2014 – Completed |
| • Define Business Requirements | Sep 2014 – Completed |
| • Develop RFI for AVL/GPS (Pilot) | Oct 2014 – Completed |
| • Develop RFP for AVL/GPS (Pilot) | Jan 2015 – Completed |
| • Post RFP on MERX | Mar 2015 – Completed |
| • RFP Closing | May 2015 |
| • RFP Evaluation & PO Release | Jun 2015 |
| • Install and setup AVL | Jul 2015 |
| • Install GPS on 20 Vehicles (Pilot) | Jul – Aug 2015 |

- Link GPS/AVL to IFS-VWO
- Install GPS on NRV Fleet

Jun – Aug 2015
2016

Accessibility/Equity Matters

There are no issues related to accessibility within this project.

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