

Background

This report is in response to a Council request for information on the saturation of Automatic Vehicle Locator (AVL) technology in the City's fleet and how much it costs to install and operate AVL units on City owned equipment. AVL technology is used extensively in a number of departments and is used marginally or not at all in other departments. Emergency Medical Services (E.M.S.) has been using AVL for approximately two decades. The current service provider of the AVL units employed by E.M.S. is Ferno Canada .The remaining City fleet utilizes AVL units from Consat AB.

In 2012, Consat AB was approved as the vendor of record with the City for AVL systems. The Transit division was using the Consat AB system in the transit fleet since 2008. Since 2012, various City divisions have adopted AVL technology in their operations. Currently, AVL is used in E.M.S., Transit, Roads and Transportation, Water/Wastewater, Building Services, By-Law, Environmental Services, Clerks Services and Construction Services.

Saturation

AVL units are installed on 354 of the 733 vehicles, machinery and movable equipment in the City Fleet. The decision to equip a vehicle/machinery with an AVL unit is based on the operational benefits that can be derived from an AVL. Consideration for service level measurement, performance information, regulations, preventative maintenance, best practice, regulations and the geographic area serviced are taken into account when considering the potential purchase of an AVL unit. As a result, there are many fleet units that would not be equipped with AVL, as the benefits cannot justify the cost of the unit.

Cost

The cost to purchase and install an AVL unit from Consat AB is approximately \$6,000. There are also recurring costs of approximately \$500 annually per unit.

Summary

AVL units are installed on 354 vehicles and machinery in the City Fleet. Additional installations would cost approximately \$6,000 and would also have a recurring cost of approximately \$500 annually. Currently, AVL is used in E.M.S., Transit, Roads and Transportation, Water/Wastewater, Building Services, By-Law, Environmental Services, Clerks Services and Construction Services.