

TO: GENERAL COMMITTEE

SUBJECT: PURCHASE OF ONE 50-75 FOOT AERIAL AND ONE RESCUE PUMPER

WARDS: All

**PREPARED BY AND
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SUBMITTED BY: D. FRIARY
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**GENERAL MANAGER
APPROVAL:** R. J. FORWARD, MBA, M.Sc., P. Eng.
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**CHIEF ADMINISTRATIVE
OFFICER APPROVAL:** C. LADD
CHIEF ADMINISTRATIVE OFFICER

RECOMMENDED MOTION

1. That a 50-75 foot Aerial Ladder Truck and one Rescue Pumper be purchased in lieu of one 100 foot Platform Aerial Truck, from the Tax Capital Reserve in the amount of \$1,500,000.00.

PURPOSE & BACKGROUND

2. Fleet Services and the Barrie Fire and Emergency Service (BFES) were given approval in the 2016 Capital Business plan to purchase a 100 foot Aerial Truck to replace the 1996 75 foot Aerial for \$1,500,000.00.
3. The 2001 Rescue Pumper Truck is scheduled for replacement in the 2016 -2020 Capital Plan for 2017 for \$700,000.
4. BFES and Fleet Services have reviewed the future and current needs of the apparatus and are seeking permission to change the scope of the project from purchasing a 100 foot Aerial truck to purchasing a 50-75 foot ladder Aerial Truck and a Rescue Pumper within the approved 2016 budget of \$1.5 million.
5. BFES's current aerial fleet is older and consists of a 1996 75 foot ladder truck, a 2002 50 foot Quint, a 2005 100 foot platform aerial, and a 2009 100 foot platform aerial.
6. In 2011, a long term fleet management contract was negotiated with Safetek Emergency Vehicles Ltd., the Canadian Distributor of Smeal fire apparatus, for the supply of pumpers and aerial trucks for Barrie Fire & Emergency Service for a period of Seven (7) years in an amount not to exceed the amount allocated in the annual Business Plan (FES003-11).

ANALYSIS

7. The 1996 75 foot ladder truck is 20 years old and is past the recommended life cycle of the Fire Underwriters recommended guidelines and needs to be replaced. Without replacement the City's insurance rate would be affected. The proposed 50-75 foot Aerial would meet the specifications required in NFPA 1901: Standard for Fire Automotive Apparatus and would meet the criteria to be deemed an aerial apparatus by Fire Underwriters Survey maintaining our insurance rate.

8. During the review of the current and future fleet needs, it was established that a third 100 foot Aerial would not suit the needs of BFES as the unit would be too large to easily maneuver residential neighborhoods and would be challenging to operate with limited space such as on tree lined streets, limited access parking lots and driveways. A smaller 50-75 foot unit would be better suited to these conditions.
9. It was also identified that the 2001 Rescue Pumper was requiring significant repairs and would benefit from a closer replacement date. The new Rescue Pumper would replace a 2001 apparatus that was purchased for \$300,000 with lifetime repairs of approximately \$444,000. Maintenance costs are expected to be lower for the new vehicle and are estimated at \$3,000 for the first 5 years.
10. The proposed 50-75 foot Aerial would have lower maintenance costs as well. As a smaller unit it is better suited for daily use and responding to a variety of emergency calls. This would result in less wear and tear on the vehicle as opposed to the 100 foot Aerial which is best suited to responding to structure fires.
11. With the recommended motion, BFES would still operate two frontline aerial apparatus and have two reserve aerial apparatus allowing the City to maintain current service levels and meet future needs with the growth in the City.
12. Currently the City has a long term fleet management agreement negotiated with Safetek Emergency Vehicles Ltd. In an effort to identify alternative cost effective options while respecting the need for certain apparatus specifications, consideration should be given to alternative suppliers through an open bid process in line with the City's new purchasing bylaw. Should alternative options be deemed more cost effective, motion FES003-11 may be reconsidered.

ENVIRONMENTAL MATTERS

13. The purchase of a 50 - 75 foot Aerial versus a 100 foot Aerial would decrease the engine size. The horsepower required would also be significantly lower thereby decreasing the emissions and fuel consumption substantially.

ALTERNATIVES

14. The following alternative is available for consideration by General Committee:

Alternative #1

Proceed with the purchase of the approved 100 foot Aerial and replace the apparatus currently recommended in the intake forms for 2017 and 2018 for \$850,000 and \$700,000 respectively.

This alternative is not recommended as purchasing two apparatus for the price of one aerial apparatus greatly improves and modernizes two BFES vehicles instead of one. Deferring the 2017 and 2018 capital apparatus purchases allows \$1,550,000.00 of future capital funds to be available for other City projects in the next two years

FINANCIAL

15. The cost to purchase the two new apparatus would be the same as replacement of one 100 foot Aerial Truck making it a cost neutral option, barring any unforeseen changes in the market.
16. With the purchase of the new apparatus, the Rescue Pumper scheduled for the 2017 Capital Plan can be removed. The replacement vehicles will also positively affect future budget years. With newer vehicles better suited for regular call outs there will be less wear and tear on other vehicles in the BFES fleet which will extend their useful lives. As a result the request for replacement apparatus 02-544 and 02-5001 in the 2017 and 2018 intake forms could be moved out to 2019

and 2020 resulting in a deferral of \$1,550,000. The 2017 Capital Business Plan would be amended to reflect these changes.

LINKAGE TO COUNCIL STRATEGIC PRIORITIES

17. The recommendation(s) included in this Staff Report support the following goals identified in the 2014-2018 Strategic Plan:

Responsible Spending
18. Purchasing two apparatus for the price of one aerial apparatus greatly improves and modernizes two BFES vehicles instead of one.
19. Deferring the 2017 and 2018 capital apparatus purchases allows \$1,550,000 of future capital funds to be available for other City projects in the next two years.
20. Reduction in operational costs to maintain older apparatus to ensure responsible spending.