



# CENTRAL YORK FIRE SERVICES

January 22, 2019

## CENTRAL YORK FIRE SERVICES REPORT

To: Joint Council Committee  
Origin: Central York Fire Services - Deputy Chief Rocco Volpe  
Subject: Fleet Information Report

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### **RECOMMENDATIONS**

**That Central York Fire Services Report dated January 22, 2019, Fleet Information Report be received for information purposes.**

### **COMMENTS**

This report is presented to the Joint Council Committee (JCC) to provide information on the current Central York Fire Services (CYFS) heavy fire fleet.

### **BACKGROUND**

The history of CYFS dates back to January 2002, when Aurora and Newmarket Fire Departments consolidated. Since its inception, CYFS has been equipped with firefighting equipment and apparatus that are required to respond to the various firefighting challenges of the day. CYFS has a heavy fleet inventory that has grown over time as the communities have grown.

For the purpose of this report, the heavy fleet refers to large custom fire apparatus that respond to emergency incidents. The current CYFS heavy fleet inventory consists of twelve fire apparatus, each serving a specific purpose to provide fire protection to the communities of Aurora and Newmarket. CYFS classifies the heavy fire apparatus fleet into three categories.

## **1. PRIMARY RESPONSE VEHICLES**

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As part of the CYFS heavy vehicle inventory, CYFS has a variety of vehicles which consist of Fire Engines, Aerial's, Tanker and Hazardous Materials. Located strategically throughout the four CYFS fire stations, the following fire apparatus are located in such a manner to provide optimum response for the residents of Aurora and Newmarket.

Fire Engines serve as a basic response vehicle for most emergency incidents. Engines carry hose, minimal supply of water, which is used as the initial attack prior to hooking into a fire hydrant, medical equipment, tools and firefighting equipment. Each of the four fire stations is equipped with a Fire Engine. Station 4-4 primary vehicle is a 55' Aerial.

Aerial Ladders / Platforms are specialized apparatus that have the ability to reach high stories in taller structures for fire extinguishment or patient rescue. Three out of the four CYFS fire stations have an Aerial device.

## **2. RESERVE VEHICLES**

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The reason for a reserve fleet is when primary vehicles are in for routine service and repairs (NFPA 1901 – Minimum Standard for Fire Apparatus).

In 2018, with the assistance of the Town of Newmarket Finance Department, CYFS completed an Asset Management Program Report. The report established and outlined a replacement cycle program for heavy fire apparatus. As per National Fire Protection Association (NFPA), all primary (front run) fire apparatus are to be replaced after 15 years. Once replaced, the apparatus is used as a reserve apparatus for an additional five years after which time they are removed from service and sold at auction for market value. Total service life expectancy is twenty years. In addition, reserve vehicles are utilized when call back is initiated.

## **3. SPECIALIZED VEHICLES**

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Tankers serve as a water shuttle in the outlying rural areas and highways that are not served by municipal water supply and hydrants. Tankers carry a large amount of water and have a pump on board to allow for minor fire extinguishment such as vehicle fires and grass fires. Tanker 444 is strategically located at Station 4-4 where the fire apparatus and fire crew respond to the rural areas of Aurora and Newmarket that do not have fire hydrants. Additionally, Tanker 444 responds to the Town of Whitchurch-Stouffville to areas specified in our Fire Protection Agreement.

Hazardous Materials vehicle carries specialized equipment such as Level A protective hazmat suits, decontamination tent, spill containment supplies and specialized air monitoring instruments to respond to hazardous materials incidents. H438 is located at Station 4-3.



## CURRENT CYFS HEAVY FLEET INVENTORY

PRIMARY VEHICLES	FLEET #	CYFS ID	YEAR
ALF Eagle, Engine	06 14	E421	2006
Spartan, Smeal - 32M (Aerial)	12 07	A436	2012
Spartan, Crimson - Engine	12 08	E411	2012
Spartan, Smeal - 32M (Platform)	13 17	PL427	2013
Spartan, ERV - Engine	14 08	E431	2014
Spartan, Smeal - 17M (Aerial)	17 11	A446	2017
RESERVE VEHICLES	FLEET #	CYFS ID	YEAR
E-One, Superior - Engine	97 02	E442	1997
Freightliner, FL80 - Engine	99 21	E422	1999
ALF Eagle - Engine	06 15	E412	2006
Spartan, Smeal	10 09	E441	2010
SPECIALIZED VEHICLES	FLEET #	CYFS ID	YEAR
Freightliner, FL80 (Haz-Mat)	98 05	H438	1998
Spartan, Smeal - Tanker	12 09	T444	2012

In March of 2019, CYFS will be receiving two new Fire Engines to replace the following:

- E-One, Superior – 1997 (22 years of service)
- Freightliner, FL80 – 1999 (20 years of service)

These two Engines will become primary response vehicles and the two oldest primary vehicles will move into back-up status.

Through the 2017 budget process, CYFS was approved funding to purchase a new Fire Engine for the planned anticipated Fire Station 4-5 (June 2020). The RFP process will take place in early 2019 with the expectation to have delivery of the engine in March 2020, before the opening of Fire Station 4-5. Once CYFS takes possession of the new Engine, this will bring CYFS heavy fleet inventory to 13 and active fire crews to seven per platoon.

## **MAINTENANCE**

In partnership with the Town of Newmarket, CYFS works in collaboration with Fleet Services through a Service Level Agreement. The agreement addresses the roles and responsibilities of both parties. Staff meet weekly to review work orders and issues that arise within the heavy fleet inventory. In addition, planning of scheduled maintenance of apparatus is discussed to ensure all CYFS vehicles comply with provincial legislation and the NFPA Standard 1901.

Over the past several years, CYFS has worked to standardize the fleet specifications. Fleet standardization is key for both CYFS and Fleet Services. Standardization of vehicle chassis offers many benefits such as maintenance servicing, operational benefits, ease of both mechanical and firefighting training, streamlined parts and fluids inventories and driver safety.

## **FINANCIAL IMPACT**

There is no financial impact related to this report.

The table below provides a three-year financial analysis on the actual costs of each heavy apparatus. The main drivers are parts, labour, insurance and fuel.

Heavy Vehicle Type	# of Vehicles	2018		2017		2016	
		Total Cost	Avg. Cost / Km	Total Cost	Avg. Cost / Km	Total Cost	Avg. Cost / Km
Primary	6	\$ 301,640	\$ 3.10	\$ 269,692	\$ 3.13	\$ 205,544	\$ 2.45
Back Up	4	\$ 100,632	\$ 4.10	\$ 139,745	\$ 3.95	\$ 64,593	\$ 1.84
Specialized	2	\$ 18,959	\$ 1.82	\$ 20,843	\$ 4.33	\$ 15,314	\$ 4.56
<b>Total</b>	<b>12</b>	<b>\$ 421,231</b>	<b>\$ 3.18</b>	<b>\$ 430,281</b>	<b>\$ 3.41</b>	<b>\$ 285,451</b>	<b>\$ 2.33</b>

## **CONSULTATION**

The senior Fire Management Team were consulted in the preparation of this report.

## **IMPACT ON THE MASTER FIRE PLAN**

This report is in line with the CYFS Master Fire Plan and the Town of Newmarket Asset Management Program.

## **CONTACT**

Deputy Chief Rocco Volpe



Rocco Volpe, Deputy Chief  
Central York Fire Services