



CITY COUNCIL MEETING STAFF REPORT

MEETING DATE

March 28, 2023

PREPARED BY

David Larson

City Manager

ITEM TYPE

Legislative

ATTACHMENTS

None

PRIOR DISCUSSION DATES

[February 7, 2023](#)

[February 13, 2023](#)

None

AGENDA ITEM

Fire Department Fleet Program & Quint Purchase

PURPOSE

Determine the fire fleet large apparatus rotation philosophy and potentially authorize purchase

RECOMMENDATION

The public safety committee recommends not bidding on the Syracuse quint and using the additional time to develop long-term funding plans for philosophy 1 or 2

BACKGROUND

City Council discussed the purchase of a new quint large fire apparatus on February 7 and February 13, 2023. The Council tabled the item until the public safety committee could research funding options further. The Committee met on February 22, March 1, and March 23 to develop and analyze options.

In addition, Syracuse City has recently placed a 20 year old used quint up for auction and bids are due by the end of this month. The Council needs to discuss the large apparatus philosophy and purchase options during this meeting if the Council wants to consider submitting a bid for Syracuse's vehicle by the deadline.

ANALYSIS

The Public Safety Committee reviewed the below philosophies and large fire apparatus rotation schedules and recommends not submitting a bid for the used Syracuse quint, sticking with the known backup engine that we have for now, and continuing to develop funding plans for philosophy 1 and potentially 2 long-term. Although further options were brainstormed and considered, the 4 rotation philosophies described in the table below are representative of the various concepts analyzed. The committee would like to present the various philosophy options below and give the full Council an opportunity to discuss these options and their potential outcomes.

Each of the options below seeks to follow the National Fire Protection Association (NFPA) standards of a vehicle remaining in service for 20 years or no more than 25 years if miles and usage are low (<https://link.nfpa.org/share/section/b937d102-4d16-4e52-aefe-070e6044ff47>)

It is also important to note that each of the annual costs per year is an average over the life of the rotations included below and does not include any current funding amounts. The current annual amount of \$115,000 for fire fleet being set aside includes \$95,000 for the small apparatus municipal lease program and \$20,000 per year for large apparatus purchases. That effectively lowers the cost per year for each philosophy by \$20,000 if you're calculating what it takes going forward, and not considering any one time money like ARPA or use of fund balance.

The information about the 2018 engine purchase is not considered in any of the calculations for future funding needs and is displayed for understanding of the rotation schedule and to illustrate how much costs have increased over the last 5 years for large fire apparatus.

	Philosophy 1			Philosophy 2			Philosophy 3			Philosophy 4		
Vehicles at Purchase (Frontline/Backline)	New/New			New/New			New/New + Used Stop Gap			New/Used		
Rotation Timeline	10 years			12.5 years			12.5 years			12.5 years		
Number of Future Vehicle Purchases	6			5			6			11		
Number of Future Vehicle Sales	5			0			0			5		
Total Years	60			63			63			63		
Est. Gross Cost	\$11,000,000			\$10,200,000			\$10,400,000			\$12,800,000		
Est. Total Resale Value	\$800,000			\$0			\$0			\$1,250,000		
Est. Net Cost	\$10,200,000			\$10,200,000			\$10,400,000			\$11,550,000		
Cost per year	\$170,000.00			\$161,904.76			\$165,079.37			\$183,333.33		
Rotation Timeline	Delivery	Vehicle Type	Cost	Delivery	Vehicle Type	Cost	Delivery	Vehicle Type	Cost	Delivery	Vehicle Type	Cost
	2018 Oct	New Engine	\$460,000	2018 Oct	New Engine	\$460,000	2018 Oct	New Engine	\$460,000	2018 Oct	New Engine	\$460,000
	2028 Oct	New Quint	\$1,200,000	2031 Apr	New Quint	\$1,300,000	2023 Apr	Used Quint	\$200,000	2023 Apr	Used Quint	\$200,000
	2038 Oct	New Engine	\$1,100,000	2043 Oct	New Engine	\$1,200,000	2031 Apr	New Quint	\$1,300,000	2031 Apr	New Engine + Used Quint	\$1,500,000
	2048 Oct	New Quint	\$1,800,000	2056 Apr	New Quint	\$2,100,000	2043 Oct	New Engine	\$1,200,000	2043 Oct	New Engine + Used Quint	\$2,100,000
	2058 Oct	New Engine	\$1,700,000	2069 Oct	New Engine	\$2,100,000	2056 Apr	New Quint	\$2,100,000	2056 Apr	New Engine + Used Quint	\$2,500,000
	2068 Oct	New Quint	\$2,700,000	2081 Apr	New Quint	\$3,500,000	2069 Oct	New Engine	\$2,100,000	2069 Oct	New Engine + Used Quint	\$3,000,000
	2078 Oct	New Engine	\$2,500,000				2081 Apr	New Quint	\$3,500,000	2081 Apr	New Engine + Used Quint	\$3,500,000
Description	Keep vehicles for 20 years			Keep current backup for 8 more years (3 more than desired)			Replace current backup immediately with used quint to get us through next 8 years			Replace current backup immediately with used quint to get us through next 8 years		
	10 years frontline, 10 years backline			Keep vehicles for 25 years			Replace used quint with new in 8 years			Rotate 12.5 year old engine and used quint every 12.5 years		
	Surplus vehicles at 20 years			12.5 years frontline, 12.5 years backline			Keep vehicles for 25 years			Never hold a vehicle older than 25 years old after first quint purchase		
	Small resale value			Surplus vehicles at 25 years			12.5 years frontline, 12.5 years backline			New Engine is always frontline vehicle		
				No resale value			Surplus vehicles at 25 years			Used Quint is always backline vehicle		
							No resale value			Good resale value for 12.5 year old Engine		
							Questions about maintenance of used Quint			No resale value for 25 year old Quint		
										Major cost questions about maintenance of used Quint		