

Proposed Replacement Aerial Platform Truck 12

Includes Strategic Vision for Fleet Replacement Plan

Commissioner Scott Prentiss, Author

Agenda

- ▶ Introduction
- ▶ Review existing fleet
- ▶ Review existing Aerial Platform Truck 12
- ▶ Explanation on need for replacement
- ▶ Accelerated Process and Proposed replacement apparatus
- ▶ Finances
- ▶ Review future strategic plans for fleet (down size and re-assignment)

- ▶ Questions?

Introduction

- ▶ Host - Scott Prentiss
- ▶ Chief - Edward N. Richards
- ▶ District President - Vincent Grady



- ▶ The purpose of this presentation is to review the proposed replacement of a 32 year old Aerial Platform (Truck 12).
- ▶ This presentation will include the need for replacement and the description of the proposed type of replacement.
- ▶ Also included will be a discussion on the future vision of the fleet and plans for downsizing and re-assignment.

Existing Fleet Enfield Fire District One

(Major apparatus only, specialty and staff vehicles not included)

▶ Station 1

▶ **Engine #5**

2005 Seagrave Marauder Quint – Meanstick

▶ **Truck #2**

1988 Pierce – Arrow Ladder Tower

▶ **Rescue #1**

2007 Pierce – Lance Heavy Duty Rescue

▶ **Engine #6**

1991 Pierce – Arrow Engine

Existing Fleet Enfield Fire District One

(Major apparatus only, specialty and staff vehicles not included)

▶ Station 2

▶ **Engine #4**

2007 Pierce Lance Rescue Pumper

▶ **Engine #2**

1996 Pierce Lance Quint

Aerial Platform Truck 12 Issues

- ▶ 32 Years Old, until recently served as a front line response aerial.
- ▶ Currently Out-of-Service (Red Tagged) with a failure of a critical aerial component.
- ▶ Unable to find replacement, no known manufacture to build a replacement part.
- ▶ Apparatus was planned for replacement over the last 5-7 years, but due to a number of issues the replacement cycle has been delayed.
- ▶ *Today's value - less than \$5,000, as the Aerial does not operate properly.*



Replacement Process (Normal)

- ▶ Truck Committee is formed
- ▶ Extensive work by the committee over 6 -9 months to determine what design would best meet the District needs.
- ▶ Committee develops a specification with safety features as a priority.
- ▶ Once the price negotiations are completed, a Special District Meeting (Referendum) is held to approve funding.
- ▶ Purchase Order is placed, and the engineering cycle / manufacture cycle is started.
- ▶ Normal lead time is 18 Months - 20 months (over a 1 ½ year to deliver)

Accelerated Schedule

- ▶ Due to the existing Out of Service Truck 12, an accelerated process is required.
- ▶ Plan-
 - ▶ Specification has been created
 - ▶ Funding is being requested (vote is tomorrow night 9/30)
 - ▶ Apparatus may be selected from the available pool of “Stock” units, or demo units
 - ▶ Providing a aerial can be found that meets the needs of the District.
 - ▶ Lead time can be shortened to as little as 2-6 months (when funding is approved)

Type of Apparatus Desired

▶ **ASCENDANT® 100' HEAVY-DUTY AERIAL TOWER**



With Equipment

Includes - Aerial platform, Pump, tank and hose load

Targeted Usage

- ▶ Aerial Platforms are used to meet the following needs of the District.
 - ▶ Aerial work above 2 stories (ex. 107 Phoenix Ave, many of the Condominium and housing projects, shopping centers, office buildings and factories).
 - ▶ Horizontal Reach. Being able to park on Enfield Street and reach the roof tops of the many large houses in the Historical District.
 - ▶ Life Safety. Buildings such as the High School, St. Joseph Residence, Felician Sisters Complex and the Hampton Inn are buildings that require specialized equipment for rescues above the 2nd floor.
 - ▶ Below grade rescues. This unit can angle down 15 Degrees to go below grade when required.
- ▶ Of the 1,337 calls last year, this new Aerial Platform would have responded to approx. 39%, or over 500 calls with the anticipated fleet re-deployment.

Features of the New Design (Highlights Only)

- ▶ Cab safety systems including Frontal Impact Protection and Side Roll Protection
- ▶ Improved seating including three point seat belts, air cushions, seat belt pretensioners, and hands-free SCBA holders
- ▶ State of the art information center, LCD display, and diagnostic panel providing safety, maintenance, diagnostics, electrical loads, operational information, and prediction of remaining life of critical fluids and events.
- ▶ Seat belt monitor system
- ▶ Vehicle data recorder system
- ▶ Forward and interior camera system
- ▶ Rear view camera system

Testing and Certification (Highlights Only)

- ▶ Testing has been performed and certification provided in a large number of areas including the following:
 - ▶ Vehicle Stability
 - ▶ Slip Resistance of Stepping Areas
 - ▶ Braking System
 - ▶ Cab Integrity
 - ▶ SAE J2422 Roof Strength
 - ▶ SAE J2420 Frontal Strength
 - ▶ ECE Regulation #29
- ▶ Seat Mounting Strength, Seat Belt Anchor Strength



Document

Finances

- ▶ Up to \$1,000,000 from the existing savings account to be used as a deposit.
- ▶ Up to \$600,000 to be financed as a 10 year lease - purchase agreement.
- ▶ Impact to taxes - None.

Current Mill rate allows for payment of 10 year lease purchase without any increase in the mill rate.

Anticipate that the Mill Rate will not be increasing with the overall fleet upgrade.

Mill rate-

2018	3.45 Mills
2019	3.6 Mills
2020	3.4 Mills
2021	3.3 Mills

Strategic Vision - Fleet Upgrades

- ▶ Near term plan is to downsize the major apparatus from 6 to 5.
- ▶ Either Engine 15 or Engine 12 will be obsoleted, and not replaced.
 - ▶ Depends on which apparatus is in better shape when decision is made.
- ▶ The apparatus that remains in the fleet (either E15 or E12) will then be replaced in the next future.

- ▶ End result - Elimination of 1 of the major apparatus.
 - ▶ Reason - more efficient operations, less cost and streamlining of response matrix.

Future Vision - Fleet Assignments

▶ Station 1

▶ **Engine #5**

2005 Seagrave Marauder Quint – Meanstick

▶ **Truck #2**

1988 Pierce – Arrow Ladder Tower

▶ **Rescue #1**

2007 Pierce – Lance Heavy Duty Rescue

▶ **Engine #6**

1991 Pierce – Arrow Engine

Future Vision - Fleet Assignments

▶ Station 1

▶ **New Engine #6**

(Due to arrive next spring / summer)

▶ ***New Truck #2***

Purchase of Stock (demo) unit

▶ **Rescue #1**

2007 Pierce – Lance Heavy Duty Rescue

Note downsizing of an Engine Pumper

Existing Fleet Enfield Fire District One

(Major apparatus only, specialty and staff vehicles not included)

▶ Station 2

▶ **Engine #4**

2007 Pierce Lance Rescue Pumper

▶ **Engine #2**

1996 Pierce Lance Quint

Future Vision - Fleet Assignments

▶ Station 2

▶ **Engine #4**

2007 Pierce Lance Rescue Pumper

Engine #2

1996 Pierce Lance Quint

-or-

Engine #5

2005 Seagrave Marauder Quint – Meanstick

Future Vision - Fleet Assignments

- ▶ **Station 2**
- ▶ Summary – Either Engine 12 or Engine 15 will be obsoleted.
- ▶ Decision will be made once New Engine 6 and New Truck 12 arrive, and fleet is re-deployed.

- ▶ Whichever Engine remains (E15 or E12) will be replaced next.
- ▶ Obsoleted apparatus will not be replaced.

Re-Deployed Fleet Assignment Changes to Response Matrix

- ▶ Alarms / Structure Response in the Station 1 area-
 - ▶ From Station 1 - New Truck 12, then new Engine 6
 - ▶ From Station 2 - (E15 or E12), then Engine 14.
- ▶ Alarms / Structure Response in the Station 2 area-
 - ▶ From Station 1 - New Truck 12, then new Engine 16.
 - ▶ From Station 2 - Engine 14, then (E15 or E12).

New simplified response provides for a 1 Engine, 1 Aerial (Quint) on the initial assignment.

Summary

- ▶ Existing 32 year old Aerial is in need of replacement.
- ▶ Accelerated replacement plan is to obtain either a demo or stock unit.
- ▶ Fleet to be downsized by one Engine, and not replaced.
- ▶ Response matrix simplified to provide for a 1 Engine, 1 Aerial initial response.

Questions?