



Wylie Fire Rescue

Heavy Equipment Replacement Update

January 2022

Presentation Topics



- Heavy Duty Apparatus Inventory
- Utility 143 Detail (Update)
- Utility 143 Replacement Request
- 3 Truck Opportunity Offered by Truck Dealer
- Discounts Offered
- Looking Forward
- Heavy Duty Truck Replacement Plan

As part of the replacement of 2 Quints funded by City Council in October 2021 for the FY 21-22 budget year, the City of Wylie has an opportunity to replace its Air and Light truck and receive additional discounts. The purpose of this presentation is to inform the council about the details of that opportunity. Staff has been working hard to finalize this deal with Daco Fire Equipment, our apparatus dealer.

Current Heavy Truck Inventory (2 tons or greater)



WFR Currently operates 5 Quints and 1 Light / Air Truck

2005 GMC C6500 Utility Body Air & Light Truck - Utility 143

2006 Spartan Rosenbauer 65' Quint 1750 GPM - Equipped Reserve

2007 Spartan Rosenbauer 75' Quint 1750 GPM - Reserve

2013 Rosenbauer 68' Quint 1750 GPM Pump - Quint 141 → *Replacement Funded*

2013 Rosenbauer 68' Quint 1750 GPM Pump - Quint 143 → *Replacement Funded*

2019 Rosenbauer 109' Quint 1750 GPM Pump - Quint 142

*2021 Rosenbauer 68' Quint 1750 GPM Pump - Quint 144 (On Order - April Delivery)

Utility 143 - Air & Light Truck - Special Services



2005 Chevrolet C5500 Chassis with Mickey Roll-up Door Body - "Utility 143"

Body was constructed in 1998

Truck was assembled by Wylie Firefighters in 2004

The apparatus serves in a dual-duty role. The primary role is that it is an air and light truck that responds to all structure fires. It provides a generator, scene lighting, and firefighter breathing apparatus refill capabilities in this role. It also serves as a rescue/utility truck on rescues, extrications, and hazardous materials calls. The current apparatus also tows the hazardous materials trailer when necessary. Because of its many roles, the truck is completely stocked, and there is no room for additional equipment.

Utility 143 - Photos (December 1st 2021)



Self Contained
Breathing Apparatus
Bottle Fill Station &
Air Supply



On-Board Air Supply
Storage &
Squeegees

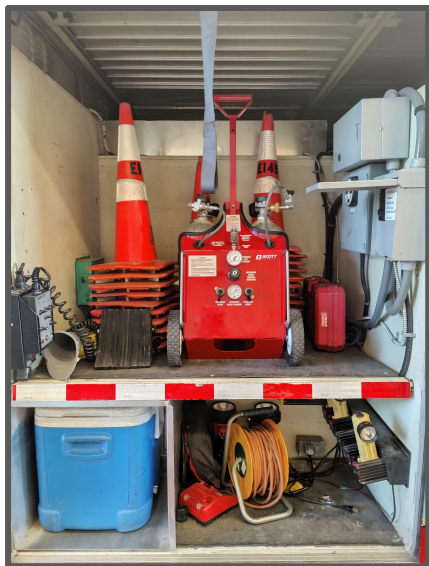


Water & Smoke
Removal Equipment,
Generator, Power
Tools, & Heater



Hazardous Material-
Absorbent Cleanup &
Leakstop Equipment

Utility 143 - Photos (December 1st 2021)



Cones, Cooler, Air
Distribution Cart,
Generator Panel,
Chargers



Rescue Cribbing,
Tarps, Plastic, Nails,
Hammers, Saws



Self Contained
Breathing Apparatus
Air Compressor



Hazmat Supplies for
Spills & Leaks,
Spare Fuel for
Incidents

Utility 143 - 2005 Light & Air Truck



- Utility 143 is a 17 year-old truck with a 24 year-old body.
- This truck was not built specifically for the fire service but services a very large area.
 - Plano is the next closest department with a mobile air/light truck.
- In 2004 when it was built, the fire department had limited funds to construct.
- The fire department was able to locate a six year-old Mickey service body that came off of an Interstate Battery truck.
- We then located a new GMC chassis and had Mickey Body Company refurbish the body and mount the body to the new chassis.
- In 2008 we had a generator installed that could meet our mobile power needs.
- The apparatus was configured and completed by fire department personnel.
- Over the years, we have made multiple repairs and modifications to fit our deployment needs.

Utility Truck Request for Replacement



Replace Utility Air & Light Truck

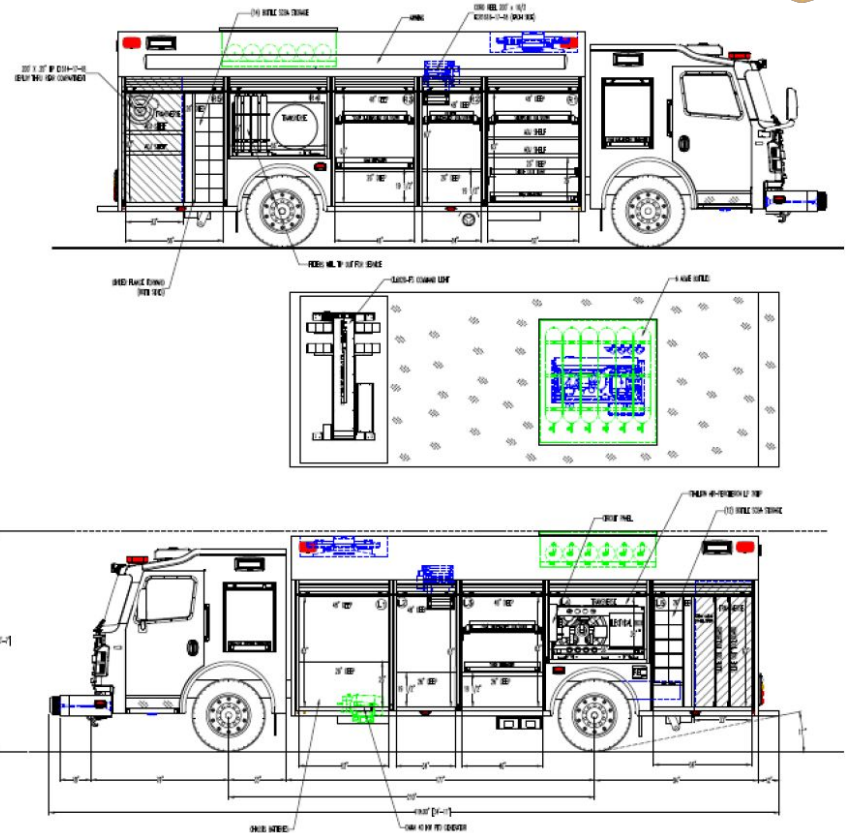
- There is not a current plan for replacement - purchase has been deferred two times in favor of other projects (ex. Fire Station #4 & Personnel for Fire Station #4)
- Apparatus Needs Replacement - Multiple systems are failing regularly
 - Air Compressor is 6 years-old
 - Breathing air bottle fill station and all associated hoses/pipes are 16 years old
 - Repairs to air systems are becoming more difficult to acquire - end of life
 - PTO Generator on Truck is 12 years old
 - Body compartments are starting to fail - Welds are breaking, and metal stress is noted
 - No Room for any additional Necessary Equipment
 - Operator/Vehicle safety systems are non-existent (crash protection, rollover protection, airbags)

Utility Proposal - “The Rolling Toolbox”



Rosenbauer Chassis

- Breathing Apparatus Refill Station
- Air Compressor
- Air Storage
- On Scene Light Tower
- On-Board 20KW Generator
- Plenty of Storage - Expand Services
- Crash protection
- 20 Year Unit



Purchasing Opportunity - Discount Package



Working with vendor the Fire Department has worked out a discount package to acquire 2 Quints and an Light / Air truck

Unit #1 - Replace Unit 301 - 2013 Rosenbauer = \$1,173,715.

Unit #2 - Replace Unit 302 - 2013 Rosenbauer = \$1,173,715.

Unit #3 - Replace Unit 112 - 2005 C6500 Utility = \$806,998.

Total Discounts offered by manufacturer/dealer = **\$117,828.**

Total Cost to City for project = \$3,154,428.

Currently Funded Budget = \$2,400,000.

Additional Funds Needed to Take Advantage of Opportunity = \$636,600.

Discounts



Discounts being offered for 3 Unit Purchase:

- Dealer Loyalty Discount = \$60,000
- Manufacturer Discount = \$15,162
- 3 Unit Package Prepayment Chassis Delivery Discount = \$34,780
- 2 Unit Package Prepayment Aerial Delivery Discount = \$7,886

Total Discounts Offered = \$117,828

Other Future Opportunities to offset costs:

\$60,000 in trade/auction value of the 2006 & 2007 Quints *(Estimated)*

Part 2 - Fleet Replacement Program



Reliable vehicles and equipment in appropriate working order are essential to providing public services to the communities served in a professional and timely manner.

A fleet replacement program provides a vital framework for evaluating which units should be replaced and when.

We face many challenges, including still-shrinking revenues, budget cuts in the fleet and support areas, increasing demand for service, increasing state mandates, NFPA 1911 mandating more annual testing, as well as the age and possible readjustments of the fleet.

At what age do you *like* to replace vehicles in your fleet?

The fact that a vehicle has reached its replacement age or threshold doesn't mean it automatically gets replaced.

- Some wear out faster than others, which may be a sign of the assignment, the intensity of use, and how the end-users take care of the vehicle.
- Some vehicles may need to be replaced sooner due to extreme wear and tear.

A comprehensive replacement program is instrumental in the budget-planning process to determine specifically which units should be replaced.

Heavy Truck Replacement Plan

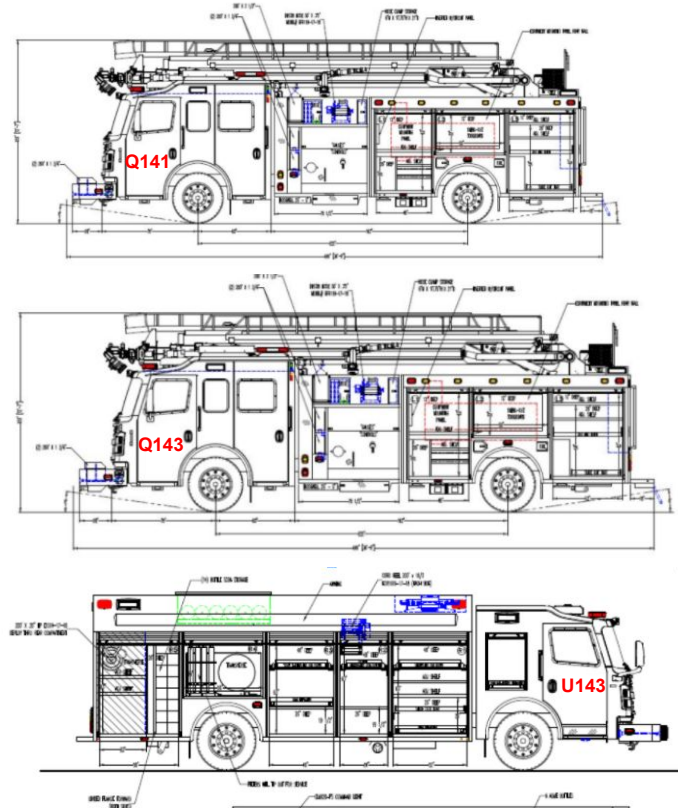


Unit Type	Features	Original Year in Service	Projected Life Span (In Years)	Front Line Service Plan (In Years)	Reserve Status Plan (In Years)	Removal from Front Line Service Year	Removal From Fleet Year	Current Life Span Front Line	Life Span Reserve	Total Utilization	Condition / Dept. Evaluation
Air&Light Truck (#112)	Air / Light System	2005	15	15	0	2022	2022	16	0	16	Utility 143 - In Service
Quint (#108)	65' Quint 1750 Pump	2006	17	10	7	2016	2023	0	6	16	Ready Reserve Status
Quint (#116)	75' Quint 1750 Pump	2007	17	10	7	2019	2024	0	3	15	Reserve Status
Quint (#301)	68' Quint 1750 Pump	2013	17	10	7	2023	2030	9	7	17	Quint 141 - Station 1
Quint (#302)	68' Quint 1750 Pump	2013	17	10	7	2023	2030	9	7	17	Quint 143 - Station 3
Quint (#424)	109' Quint 1750 Pump	2019	17	10	7	2029	2036	2	7	17	Quint 142 - Station 2
Quint (Station 4)	68' Quint 1750 Pump	2022	17	10	7	2032	2039	2	7	17	On Order

Looking Forward



- An investment in apparatus would address heavy-duty fleet for years to come
- Oldest front line heavy-duty apparatus would be a 2019
- Reserve apparatus will be 2013
- The City will receive significant savings
- New fleet replacement model will be developed and presented to city management



New Fleet Replacement Model Overview



Current Model:

- 10 years front line then 10 years reserve

Proposed New Model:

- Will take into consideration many factors through an annual grading system:
 - Age
 - Miles/Hours
 - Maintenance/Repair Costs
 - Overall condition
 - Reliability
 - Downtime
- Point system will identify what apparatus needs to be replaced

Questions?

