

**ACTION ITEM  
BOARD OF SUPERVISORS**

**DATE** September 4, 2007

**TO** Board of Supervisors

**FROM:** J Robert Brown, Jr *JRB*  
Fire and Rescue Chief

**ISSUE** Authorize Contracts and Adjust the Budget for the Purchase of  
Fire & Rescue Vehicles

**RECOMMENDATION** Approval

**BUDGET IMPACT**

**ATTACHMENTS** (2)

[1] Background Report [2] Reso/Ord/Proc # R07-353

[ ] [ ] Reso/Ord/Proc #

[ ] [ ] Reso/Ord/Proc #

**REVIEW** [X] County Administrator's Office *Ann Crook*

[X] Legal *Joseph A. Howard Jr*

[X] Finance *Marcus R. ...*

[X] Budget *Cheryl Taylor*

[X] **Consent Agenda** [ ] **Other Business** [ ] **Public Hearing**  
[ ] **Discussion Item** [ ] **Presentation** [ ] **Unfinished Business**  
[ ] **New Business**

**PRESENTATION BY:** N/A

**ELECTION DISTRICT** N/A

## **BACKGROUND REPORT**

Staff is recommending the purchase of two All-Hazards Engines (Berea and Aquia Harbour) at a cost not to exceed \$650,000 (including equipment) for one and \$500,000 for the other, one Quint ladder truck (Berea) at a cost not to exceed \$800,000 (including equipment), and four ambulances (Mountain View, Brooke, Potomac Hills and Berca) at a cost not to exceed \$140,000 each. The procurement process is complete for all apparatus except the Berca engine. Bids for the Berca engine are due prior to the September 18<sup>th</sup> Board meeting.

In accordance with the Fire and Rescue Department's Fleet Replacement Plan, four ambulances and one engine are replaced each year. This allows for rotating ambulances out of the fleet after five years of service and engines after ten years of front-line service. Additionally, apparatus known as "specialty apparatus" such as aerial ladder trucks, heavy rescue squads, fire boats, tankers, etc. are purchased every other year to adhere to the variable replacement schedule of the different specialty apparatus.

### **Fleet Replacement Budget Narrative**

*Scheduled replacement due to age and/or mileage-engine hour indication to ensure the viability of the fire and rescue fleet. This program fixes the yearly replacement cost for apparatus. Apparatus needing replacement on a scheduled basis include Engines, Ladder apparatus, Heavy Rescue apparatus, Tankers, Fire/Rescue Boats and ambulances. This program will ensure yearly replacement based on need and will avoid the development of a situation whereas numerous apparatus would need immediate replacement in the same year. Typical service life is 15 years for Boats and Tanker, 10 years for Engines, Ladders, Heavy Rescues, and Pumper/Tankers, and 5 years for ambulances. Fire and Rescue Department Sustaining Goal and Performance Indicator G1, G8, PI 1, 1 2, 1 2, 1 4, 1 5, 1 6, 1 7, 1 16*

In addition, as new stations are added, additional apparatus must be purchased.

### **BEREA STATION APPARATUS**

On September 6, 2005, the Board adopted Resolution R05-327 approving the construction of Fire and Rescue Station 12 (Berea). This station will protect a rapidly growing area that already includes industrial, commercial, multi-family and single-family residential structures along with the heavily traveled Warrenton Road and I-95 (South County) corridor. As such, this station requires an "all-hazards" engine and an Advanced Life Support (ALS) Ambulance. During a recent Insurance Services Office (ISO) evaluation, 57 buildings of three stories or more were identified in the service area of the Berca station - - thus requiring aerial ladder service for ISO credit in this area. As such, staff is recommending the purchase of one engine and one ladder (Quint) apparatus to be placed in service at Fire and Rescue Station 12 (Berea). An "all-hazards" Engine is a fire truck which fits the "all hazards" need for this rapidly growing and congested area. An "all-hazards" engine carries equipment for vehicle extrication, basic rescue, hazardous materials response, ALS emergency medical services and all types of fires.

As outlined above, as of this writing, there are 57 buildings of three or more stories in the Berea service area. In addition, there are numerous target hazard and high occupancy buildings such as Colonial Circuits, GEICO, University of Mary Washington Graduate College, and numerous hotel and retail businesses. As such, the Berea area is in need of aerial ladder service. The County's Fire and Rescue Chief has determined that a Quint type of ladder truck should be placed in service at the Berea Fire Station. A Quint type ladder truck combines five functional assets (aerial ladder, ground ladders, water tank, fire hose, and fire pump) that allow the truck to be more versatile than just a standard ladder truck. While this Quint's primary responsibility will be serving as a ladder truck and providing tools for forcible entry, salvage and overhaul, and search and rescue, the fact that the Quint is also equipped with a fire pump, fire hose and water tank allows the Quint ladder truck to also attack a fire. This is especially important when the ladder truck arrives ahead of an engine and the crew is presented with a situation that they cannot begin to mitigate with a simple ladder truck until an engine arrives.

The cost of the apparatus above includes equipment for the apparatus as well. Normally, when new apparatus is placed, in-service equipment is removed from the old apparatus and placed on the new. As Berea is a new station, no current apparatus from which to remove equipment exists. Therefore, all new equipment will be purchased for both of the above apparatus. This equipment includes but is not limited to fire hoses, fire nozzles, fire axes, Self Contained Breathing Apparatus (SCBA), emergency medical services equipment, extrication equipment, various other durable supplies, two-way radios, mobile data terminals, etc.

*Note: Although FY08 approved career staffing includes personnel for only the Engine, the Ladder and the Ambulance are needed units in this service area and are being purchased to encourage volunteer staffing at the Berea station.*

#### **AQUIA HARBOUR ENGINE REPLACEMENT**

In an effort to bring fire and rescue service to a heavily populated, under-served area of the County, the Fire and Rescue Department placed an engine in service at the Aquia Harbour Rescue Station. This engine is staffed as a Medic-Engine on a 24/7 basis. Since being placed in service, this engine has become the busiest engine in the County and has cut the historical response time in the Aquia Harbour/Garrisonville area of 10-12 minutes to 4-6 minutes.

<b>Busiest Engine Companies in Stafford County</b>	
<u>May (14<sup>th</sup> -31<sup>st</sup>) 2007</u>	<u>Calls/Month</u>
Engine 9 (Aquia Harbour)	182
Engine 2/Wagon 2 (Stafford)	99
Engine 1/Wagon 1 (Falmouth)	96
 <u>June 2007</u>	
Engine 9 (Aquia Harbour)	247
Engine 1/Wagon 1 (Falmouth)	192
Engine 2/Wagon 2 (Stafford)	164
 <u>July 2007</u>	
Engine 9 (Aquia Harbour)	287
Engine 1/Wagon 1 (Falmouth)	225
Engine 2/Wagon 2 (Stafford)	214

In order to expedite the implementation of Engine Company 9, a fifteen (15) year old Reserve Engine was used. This was to be a temporary measure until such time that we could demonstrate the need and effectiveness of this unit and a new engine could be purchased.

Since May 14, 2007 when Engine 9 went in service, the Reserve Engine that we are using has gone out of service six times for a total of 19 days of lost use. Engine 9 is currently out of service now for the 7th time and will be down for approximately seven to ten days. Staff is recommending the purchase of one engine apparatus to be placed in service at Fire and Rescue Station 9 (Aquia Harbour). The reserve engine currently serving at Aquia Harbour will then be returned to reserve status.

#### **ANNUAL AMBULANCE REPLACEMENT**

In order to maintain a reliable fleet of 20 ambulances (down from 32 ambulances two years ago) as specified in the Fleet Replacement Plan, four ambulances are removed from front-line service and replaced every year. Replacement of four ambulances each year ensures fleet reliability and reduces yearly maintenance costs. The ambulances selected for replacement are determined based on mechanical need, as identified by the Fleet Services Department personnel and the Fire and Rescue Department's Logistics Chief. These ambulances will replace units at Rescue Station 4 (Mountain View), Fire/Rescue Station 5 (Brooke), and Fire/Rescue Station 10 (Potomac Hills). The fourth ambulance will be placed at Fire/Rescue Station 12 (Berea).

**Financial Summary**

The FY07 budget included \$2,762,517 for lease financing of fire and rescue vehicles and apparatus. Of that amount, \$757,388 was spent and \$959,240 was encumbered, leaving a balance of \$1,045,889 in this account. The FY08 budget includes \$2,000,000 in lease financing for fire and rescue vehicles and apparatus, bringing the total cumulative amount to \$3,045,889. Debt service for the financing is included in the FY08 budget.

The total amount of this request is \$2,510,000. Because the FY07 funds have not yet been rolled forward, the amount above the \$2,000,000 in FY08 funds, \$510,000, needs to be re-appropriated. Effective July 1, the State code regarding budget and appropriation amendments was changed, increasing the threshold for a public hearing to 1% of the total county budget. Therefore, a public hearing is not required to accommodate this additional appropriation.

The County is in the process of bidding for a new FY08 Master Lease agreement through which vehicles and apparatus will be purchased. In order to receive the items in a timely manner, they can be purchased using cash on hand, with fund balance restored when the lease arrangements are finalized. Because this can occur during the same fiscal year, the county's year end fund balance will not be affected.

Staff recommends the Board approve proposed Resolution R07-353 appropriating \$510,000 for capital acquisition of Fire and Rescue vehicles and apparatus, approving the purchase of said equipment, and the authorizing award of contracts.

<u>Location</u>	<u>Item</u>	<u>Price</u>	<u>Status</u>
Berea	All Hazard Engine	500 000	contract to be requested at September 18th meeting
	Equipment for Engine	150 000	equipment to be purchased in near future
Aquia Harbor	All Hazard Engine	500 000	request contract at September 4th meeting
Berea	Quint	650 000	request contract at September 4th meeting
	Equipment for Quint	200 000	equipment to be purchased in near future
Mt View	Ambulance	140 000	request contract at September 4th meeting
Brooke	Ambulance	140 000	request contract at September 4th meeting
Potomac Hills	Ambulance	140 000	request contract at September 4th meeting
Berea	Ambulance	<u>140,000</u>	request contract at September 4th meeting
	<b>TOTAL</b>	<b>2 510,000</b>	

Staff anticipates requesting approval of a contract for the Berea All Hazard Engine at the September 18<sup>th</sup> Board meeting when bids have been received.

PROPOSED

BOARD OF SUPERVISORS  
COUNTY OF STAFFORD  
STAFFORD, VIRGINIA

RESOLUTION

At a regular meeting of the Stafford County Board of Supervisors (the Board) held in the Board Chambers, Stafford County Administration Center, Stafford, Virginia, on the 4<sup>th</sup> day of September, 2007

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MEMBERS

Jack R Cavalier, Chairman  
Mark Dudenhefer, Vice Chairman  
M S "Joe" Brito  
Peter J Fields  
Robert C Gibbons  
Paul V Milde III  
George H Schwartz

VOTE

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On motion of , seconded by , which carried by a vote of , the following was adopted

A RESOLUTION TO AUTHORIZE AN AMENDMENT TO THE BUDGET FOR THE PURCHASE OF FIRE AND RESCUE VEHICLES AND EQUIPMENT, TO DECLARE ITS INTENTION TO REIMBURSE ITSELF FROM THE PROCEEDS OF ONE OR MORE FINANCINGS, AND TO AUTHORIZE THE COUNTY ADMINISTRATOR TO SIGN CONTRACTS FOR THE PURCHASE

WHEREAS, in accordance with the Fire & Rescue Department's Fleet Replacement Plan, four ambulances and one engine are replaced each year allowing for rotating ambulances out of the fleet after five years of service and engines after ten years of front-line service, and

WHEREAS, also in accordance with the Fleet Replacement Plan, specialty apparatus are purchased every other year to adhere to the variable replacement schedule of the different specialty apparatus, and,

WHEREAS, on September 6, 2005, the Board adopted Resolution R05-327 approving the construction of Fire and Rescue Station 12 (Berea Station), which station requires an "all-hazards" engine, an Advanced Life Support (ALS) ambulance, and an aerial ladder service, and

WHEREAS, in order to expedite the implementation of Engine Company 9, a 15 year old Reserve Engine was placed in service on May 14, 2007 Said Reserve Engine has repeatedly gone out of service since that date and is currently out of service for the seventh time, necessitating its replacement with a more reliable engine, and

WHEREAS, in order to maintain a reliable fleet of 20 ambulances as specified in the fleet replacement plan, four ambulances are removed from service and replaced every year, and

WHEREAS, of the four new ambulances, three will replace units at Rescue Station 4 (Mountain View), Fire/Rescue Station 5 (Brooke), and Fire/Rescue Station 10 (Potomac), and the last new ambulance will be at Fire/Rescue Station 12 (Berea), and

WHEREAS, FY07 budget included \$2,762,517 in lease financing for fire and rescue vehicles and apparatus of which \$757,388 was spent and \$959,240 was encumbered, leaving a balance of \$1,045,889, and

WHEREAS, FY08 budget includes \$2,000,000 in lease financing for fire and rescue vehicles and apparatus, bringing the total cumulative amount to \$3,045,889, and

WHEREAS, the total amount of the requested authorization is \$2,510,000, of which \$510,000 needs to be reappropriated from the FY07 funds, and

WHEREAS, as of July 1, 2007, the State code amended the budget and appropriation threshold eliminating the need for a public hearing for amounts less than 1% of the total county budget,

NOW, THEREFORE, BE IT RESOLVED by the Stafford County Board of Supervisors on this the 4th day of September, 2007, that the County Administrator be and he hereby is authorized to amend the budget as follows

General Fund	
Source of funds- Fund Balance	\$510,000
Expenditure- Transfer to General Capital Projects Fund	\$510,000
General Capital Projects Fund	
Source of funds- Transfer from General Fund	\$510,000
Expenditure- Purchase of Equipment	\$510,000

BE IT FURTHER RESOLVED by the Board that

- 1 The Board of Supervisors adopts this declaration of official intent under Treasury Regulations Section 1 150-2
- 2 The Board of Supervisors reasonably expects to reimburse advances made or to be made by the County to pay the costs of the Equipment from the proceeds of one or more financings The maximum amount of financing expected to be issued for the Equipment is \$2,510,000
- 3 This resolution shall take effect immediately upon its adoption

BE IT STILL FURTHER RESOLVED that the Board be and it hereby does approve appropriating \$510,000 for capital acquisition of Fire and Rescue vehicles and apparatus, approving the purchase of said equipment, and the authorizing award of contracts as follows one (1) Pierce All-Hazards Engines – Singer and Associates, \$500,000 per RFP #612074, one (1) Smeal Quint Ladder Truck – Keplinger Sales and Service, \$650,000 per RFP #717074, and four (4) Horton Ambulances – FESCO, Inc - \$560,000, per standing contract

SC JRBjr scw