

# ***Kempsville Volunteer Rescue Squad***

## **Support 9**

### **Virginia Beach City Council Funding Request**

**Drafted by:**

Joseph A. Budy, Jr.  
November 29, 1999

## MISSION STATEMENT:

*The mission of Support 9 is to reduce the critical impairing effects of heat, dehydration and long-term exposure to cold on firefighters, police officers and EMS providers by providing on-scene rehabilitation services, as needed, thereby enhancing the safety and effectiveness of their performance. In addition, first aid and other support services are provided to any area agency and/or the public, in times of disaster or other incidents.*

## **ISSUE:**

The *Kempsville Volunteer Rescue Squad* (KVRS) Support 9 Team needs to replace its aging, overweight Support 9 vehicle with a new modern, more space efficient unit. This will ensure its continued delivery of quality emergency services and enhance its role in the city's emergency services division.

To achieve this goal, KVRS is requesting that the City of Virginia Beach assist us in securing the required monies through cooperative funding.

## **HISTORY:**

The *Kempsville Volunteer Rescue Squad* (KVRS) Support Truck (**Support 9**) Program began in July 1996. The leadership of KVRS noted that the city did not have, in its vast arsenal of equipment, a vehicle or service to provide adequate scene rehabilitation for Fire/Police operations, long term EMS or MCI incidents, or off-road emergency operations. With this in mind, the concept of Support 9 was born. The program design concept was to assist other programs and city departments, by providing auxiliary and ancillary services on a wide variety of emergency service operations. It, also, was designed to compliment the capabilities and programs of other regional agencies, as needed.

With those basic precepts in mind, it was noted that a vehicle in the KVRS inventory, Salvage 9, was vastly under used and effectively had no role, nor membership, to support salvage duty operations for the city. These operations were being adequately handled by city owned and other volunteer operations, at other stations in Virginia Beach.

## **CURRENT PROGRAM:**

The present Support 9 is a multi-purpose, 1982 Chevrolet, 4-wheel drive unit. The unit is equipped with a wide variety of rehab and medical supplies (**APPENDIX 1**). The driver/operator can provide hot or cold drinks, light snack foods, tables, chairs, a 10X10' fully enclosed tent structure, and 2 high velocity fans (1 fan, when hooked to a water supply, provides a cooling mist). Medical capability includes a standard EMS "Jump Kit", ALS support equipment, spinal immobilization gear, and a multiple port oxygen supply source (Minilator) for up to 12 patients. The truck provides lighting with telescoping, truck mounted, halogen light poles and Circle "D" ground lights, powered by an on-board 7.5 Kwh, gasoline generator.

Support 9 is typically operated by a single driver/operator. This individual is a qualified Emergency Vehicle Operator and trained for rehab operations (**APPENDIX 4**). There are presently 20 personnel qualified to operate this vehicle for rehab operations and response. As of November 1, 1999, all Rescue 9 First Responder/EMT Trainee's will be required to become qualified in Support 9 operations. The Support 9 Program is open to all city rescue squad personnel.

The unit is manned via a duty pager. Dispatch is based on both Fire/VBPD/EMS command requests and an established dispatch response matrix (i.e. greater alarm fires.) It is expected that the unit will be on the road within a maximum of 20 minutes, of the time dispatched. Once “on scene,” the operator reports to the appropriate Incident Command Officer and conducts the desired service(s)/function(s), as required, until the event is completed, or released by the appropriate command. The driver/operator typically operates under the Medical Group Supervisor. When not manned by “duty” personnel, ALS providers may use the truck to respond to ALS calls.

Support 9 is also used in a utility role, retrieving equipment from area hospitals and returning it to the appropriate fire/rescue stations. It is also called upon, during ambulance shortages, to shorten their turnaround time at the hospital, by exchanging items, such as drug and IV boxes, with those on Support 9. The unit is not normally utilized as a “first response” vehicle. It can, however, render assistance to responding units by maintaining a “Safe” scene, checking for and rendering triage/emergency care to those injured, and filling out “Patient Refusals”.

The unit has received awards and letters of appreciation from City agencies for services and responses rendered on varying types of calls (**APPENDIX 2**). A Call Data Summary is shown in **APPENDIX 3**.

### **PRESENT EQUIPMENT PROBLEMS:**

As mentioned earlier, the present unit is a 1982 Chevrolet, thus making it 17 years old and in need of retirement. Its present mileage is 62,000 miles (began with 30,000 miles as Support 9 in July 1996) and does not reflect its age, but its prior lack of having an effective role in the fire department’s daily mission. The age has taken its toll on the platform, making it mechanically unreliable.

Since becoming Support 9, the vehicle has suffered the following mechanical problems: 2 alternator failures, power steering pump replacement, brake master cylinder replacement, brake calipers and drums, all 6 tires, failure of the fuel tank sending unit system, and 2 transmission replacements. In addition, the truck has multiple leaks in several compartments and all door seals are bad. The crew compartment does not have adequate climate control, which poses two problems: no relief for the crew in extremely hot operations and the windows fog up in normal rain situations. The total cost for maintenance of this vehicle, since inception, has been \$7,951.65 (See **APPENDIX 5**).

A major problem is the on-board gasoline generator. Its present configuration is a safety hazard. Its engine has a separate gasoline tank and the only way to refill it is to use a funnel and hose leading to the tank. This entails pouring gasoline into the funnel, just above the manifold/exhaust system, an extremely dangerous crew liability.

The present vehicle chassis was designed to handle a weight of 11,000 lbs. The unit, as equipped today, weighs in at 12,400 lbs. This taxes the engine, brakes and transmission, causing premature failure of these items. The present compartmentalization is inadequate. There is no

room for all the current equipment, or for any additional equipment needs, as the role of Support 9 increases.

### **NEW VEHICLE BENEFITS:**

A new vehicle would mean less time “Out of Service”, thus increasing availability. The increased weight class of the “spec” chassis will allow for all current equipment to be stocked on the truck, as well as allow for future expansion of tasks and mission capabilities. The added shelving and space can be utilized for a modular stocking of equipment allowing the unit to be available for regional support missions, as part of a “Disaster Task Force.”

The use of a diesel-fueled vehicle will increase durability and the life span of the unit. With long on-scene times, durability of the engine is paramount.

This durability extends to the units on-board diesel generator system used for scene lighting and other electrical equipment needs. The new diesel generator system will be pre-piped into the vehicle fuel tank, minimizing the serious safety concerns of the present unit.

The recommended minimum equipment specifications for this vehicle are shown in **APPENDIX 6**.

The search for a new vehicle has resulted in receipt of quotes from multiple equipment manufacturers. The bids ranged from \$96,823.00 to \$132,474.00, as shown in **APPENDIX 7**. Finalization of pricing will occur with the processing of the “final” order.

### **PROPOSAL:**

The *Kempsville Volunteer Rescue Squad* (KVRS) Executive Committee is requesting funding for this valuable city asset, Support 9, through a “No Interest” loan from the City of Virginia Beach.

Current budget constraints limit KVRS’s ability to fully fund this essential emergency vehicle through normal banking channels. The Squad’s escalating call volume increases vehicle maintenance costs and necessitates replacement/refurbishment of the existing ambulances and heavy squad on a more frequent basis. A Financial Analysis of our organization is shown in **APPENDIX 8**.

Therefore, KVRS is asking the Virginia Beach City Council to fully fund the purchase of this vehicle through the “No Interest” loan process, with a multiple year payback. With this request, we are asking for a \$102,600.00, No Interest Loan. Since the life span of the specified vehicle is estimated to be 15-20 years, we are requesting a payback period of 10 years, beginning with the first installment to be made 1 year from your approval and issuance of funding for this important project. Each of the 10 equal installments would be \$10,260.00.

# APPENDIX 1

## Mechanical

- Oil Level
- Transmission Fluid
- Tires (CK Pressure/Condition)
- Gas Level (Full, 3/4, Half, 1/4)
- Battery Fluid Level
- Lights/Siren

## Cab Compartment

- Traffic Vests (2)
- Log Book
- ADC/City Map Books
- Clipboard (PPCRs, REHAB Sheets, Run Reports, Check-off Sheets)
- Pens (in glove box)
- 500 watt bulbs (in glove box)

## Compartment 1

- 6 Circle D Lights
- 6 Flares (on door)
- Extension Adapters (on door)
- Work Gloves
- 1 Long Backboard
- 2 200 ft. Electric Cord Reels
- 2 10 gallon Coolers (water)
- 2 5 gallon Coolers (ice)
- 2 small coolers
- 1 REHAB Command Light
- Misc. Axes, fire poles, Sun Shade Tent

## Compartment 2

- Chain Saw w/oil and chain box
- Rope
- 2 Tarps
- 1 Tub of Disposable Blankets
- 1 Tub of Hospital Blankets
- 2 Water Hose & 1-1/2" Adapter
- 1 Submersible Water Pump

## Compartment 3

- Cups (# of sleeves)
- Coffee Pots
- 2 Tubs of Towels
- 2 Spray Bottles
- 1 Box of Dried Soup
- Sterile Water
- Cup Carriers

## Compartment 4

- 2 Fans
- 1 Can of Fruit CockTail
- Tub 1:  6 Squench
- 8-10 Coffee Packets
- 25 Hot Chocolate Pks.
- Sugar
- Creamer
- Sweet & Low
- Granola Bars
- Peanut Butter Crackers
- Variety Cookies
- Fig Newtons
- Can Opener/Spoon
- Coffee Filters
- Plastic Spoons
- Napkins

- Tub 2:  Same as Tub 1

## Compartment 5

- 8 Chairs
- 1 Box of Trash Bag Liners
- 2 Recovery Bags
- 1 Bottle of Simple Green
- 1 Bottle of Bleach Mixture
- 2 Personal Protective Suits
- 1 CID
- Assortment of C-Collars
- Tool Box
- BP Kit (4 BP Sets + 8 Non-ReBreathers)
- 1 Set CID Blocks

## Compartment 6

- EMS Jump Kit
- IV Box (Box # \_\_\_\_\_/Exp. Date \_\_\_\_\_)
- Drug Box (Box # \_\_\_\_\_/Exp. Date \_\_\_\_\_)
- 3 Tables
- 1 Roll Perimeter Tape
- Portable Light with Stand
- Latex Gloves (Small, Medium, Large)
- Life Pak 5
- Main O2 Bottle (1200-1800)
- Spare O2 Bottle (small)
- Microwave Oven
- Helmet and Turnout Coat
- Orange Bag w/10 ea. O2 Masks and 2 Minilators
- Bio-Hazard Bags
- Needle Bio-Hazard Box
- Flashlight (Rechargeable)

## Rear Compartment

- Generator Operational (Gas Full)
- Trash Can
- Gas Can (Full, for Generator)
- Oil/Gas Mixture (for Chain Saw)
- 15 Traffic Cones
- Gas Funnel
- Broom
- Dolly
- Step Chock/Stabilizers
- 2 Wheel Chocks (Under Compartment 1)

## APPENDIX 2

### **AWARDS & RECOGNITION:**

As shown in the following, the Support 9 Team was recognized in 1997, by the Virginia Beach Fire Department with a **Certificate of Appreciation**, and the Virginia Beach Police Department with a **Meritorious Public Safety Award**. The team has also received several “Thank You” Letters and Letters of Appreciation from, such agencies as, the Virginia Beach Police Detective Bureau and the Chesapeake Fire Department for supporting significant operations for their agencies. In addition to these items, a collage of newspaper articles is presented representing the vast array and types of calls Support 9 has responded to and provided assistance to various city agencies.

## APPENDIX 3

### CALL DATA:

July to December 1996, 32 Total Calls\*.

January to December 1997, 33 Total Calls\*.

1998 SUPPORT 9 INCIDENT BY TYPE														
		JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	
Working Fire		2	1	0	0	1	3	4	3	4	1	1	0	
Hazmat		0	0	0	0	0	0	0	0	0	0	0	0	
Bomb Threat		0	0	0	0	0	0	0	0	0	0	1	0	
PD Crime Scene		0	1	0	0	0	0	0	1	1	2	0	1	
PD Accident		0	0	0	0	0	0	0	0	0	0	0	0	
EMS Entrapment		0	0	0	0	0	0	1	1	0	0	0	1	
EMS Lost Person		0	1	0	0	1	1	1	0	1	0	0	0	
Boat/Swim Distress		0	0	0	0	1	0	0	0	1	0	0	0	
Drowning		0	0	1	0	0	1	0	1	1	0	0	0	
Misc. Fire (Structure)		0	0	0	0	0	0	0	0	1	0	0	0	
Misc. PD (SWAT)		0	0	0	1	0	0	0	0	0	0	0	0	
Misc. EMS		0	1	0	0	0	0	0	1	0	0	0	0	
<b>TOTAL CALLS</b>		<b>2</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>9</b>	<b>3</b>	<b>2</b>	<b>2</b>	
													<b>1998 TOTAL CALLS</b>	<b>45</b>

1998 STBYS/DRILLS - 19

\* Indicates statistical data not broken down prior to 1/01/1998.



1999 INCIDENT BY TYPE													
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
Working Fire	0	1	0	1	2	1	4	1	1	2	0	0	13
Hazmat	0	0	2	0	0	2	0	0	0	0	0	0	4
Bomb Threat	0	0	0	0	0	0	0	0	0	0	0	0	0
PD Crime Scene	0	0	0	0	0	0	0	1	0	0	0	0	1
PD Accident	0	0	1	0	0	0	0	0	0	1	0	0	2
EMS Entrapment	0	0	0	0	0	2	1	0	1	0	0	0	4
EMS Lost Person	0	1	0	0	1	0	0	0	0	0	0	0	2
Boat/Swim Distress	1	0	0	0	0	0	0	0	0	0	0	0	1
Drowning	0	0	0	1	0	0	1	2	0	0	0	0	4
Misc. Fire	0	0	0	0	0	0	0	0	0	0	0	0	0
Misc. PD	0	0	0	0	0	0	0	2	0	0	0	0	2
Misc. EMS	0	0	0	0	0	0	2	0	1	0	0	0	3
Stby/Drill	0	1	1	1	2	1	0	2	6	5	0	0	19
<b>TOTAL CALLS</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>8</b>	<b>9</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>55</b>

## APPENDIX 4

### **DRIVER/OPERATORS:**

All emergency driver/operators of SUPPORT 9 must meet the following criteria to be qualified:

- a. Documented completion of a certified EVOC course;
- b. Released as a Code 1 driver, with appropriate documented training;
  - (1.) Trainee must have documented at least 6 Ambulance duties and are limited to Code 3 responses;
  - (2.) Support Admin. Members are restricted to Code 3 responses, until fully qualified;
- c. Completion of MCI Module I;
- d. Completion of HAZMAT Awareness;
- e. Current CPR certification;
- f. Completed familiarization drive/operations with SUPPORT 9 Team Leader (960);
- g. Completion of MCI Module II, within 1 year;
- h. Completion of the Support 9 Rehab Training Package; and
- i. Be approved by the Rescue 9 Assistant Squad Commander, 952.
  - (1.) If from another squad, must have/provide authorization, in writing to Rescue 9 Squad Commander, 950, from the home station squad commander.

As noted above, the operation of Support 9 has been opened to individuals from all the city's rescue stations. As of November 1, 1999, all Rescue 9 First Responder/EMT Trainee's will be required to become qualified in Support 9 operations.

## APPENDIX 5

### SUPPORT 9 Maintenance Costs:

#### July 99 - Oct. 1999:

Parts	117.99	
PM	25.00	
Repairs	1,998.88	
<b>TOTAL</b>		<u>2,141.87</u>

#### July 98 - June 99

Parts	600.00	
PM	1,133.57	
Repairs	347.40	
<b>TOTAL</b>		<u>2,080.97</u>

#### July 97 - June 98

Parts	0.00	
PM	322.61	
Repairs	862.08	
<b>TOTAL</b>		<u>1,184.69</u>

#### June 96 - June 97

Parts	551.00	
PM	98.34	
Repairs	1,894.78	
<b>TOTAL</b>		<u>2,544.12*</u>

**SUPPORT 9 TOTAL MAINTENANCE COSTS**

**7,951.65**

\* 1996 includes initial changeover, set-up costs associated with mission change.

## APPENDIX 6

### EQUIPMENT NEEDS:

The KVRS Vehicle Committee reviewed Support 9 calls and equipment needs. As a result, the following items were found to be the minimum equipment required for the purchase of a new vehicle:

- Ford F-450/550 XLT chassis, 4X4, Diesel, Color – white, Ambulance Prep. Pkg. 47A, Captains Adj. Seats with center equipment console;
- Light Duty Rescue Body, 12' – 14' (Multiple Compartment with shelves);
- 2 ea. Alpha 2000 Kwik-Raze or equivalent, 500-1000w telescoping lights (front);
- 2 ea. Alpha 2000 Kwik-Raze, or equivalent, 500-1000w Tripod, telescoping lights (rear);
- 2 ea. Scene lights on each side and rear of vehicle;
- 1 ea. Onan Generator, or equivalent, PTO or diesel, 7.5-10 Kwh, with remote start;
- 1 ea. Ramsey 8,000 lb. Winch (Hitch receiver mounted);
- 1 ea. Class 3, HD, rear mounted hitch with 4-pin trailer connector & winch power connector;
- 1 ea. Class 3, HD, front mounted hitch with winch power connector;
- Halogen compartment lighting;
- 1 ea. Canopy, encased, pullout type, mounted, drivers side;
- 2 ea. 200 ft. (10/3) electric, ceiling mounted, cord reels (1 on each side);
- 1 ea. “Arrowstik” mounted above the rear compartment with a control in the drivers compartment;
- Whelen, or comparable, Halogen/Strobe, NFPA compliant upper and lower light package;
- Whelen, or comparable, electric siren;
- 1 ea. Medical O<sub>2</sub> tank, single, mounted;
- 6 ea. Twist-loc, 15 amp. covered outlets (2 ea. Side and rear);
- 2 ea. Streamlight “Lightbox” Rechargeable Flashlights with chargers (1 ea. Side);
- 1 ea. Slide-out equipment tray, 600-1000 lb., in rear compartment;
- 1 ea. Adjustable shelf in rear compartment;
- 2 ea. Adjustable shelves in compartments 3 & 6;
- 1 ea. Adjustable shelf in compartments 2 & 5;
- Aluminum tread plate running boards at cab area.

## APPENDIX 7

### **BID PROPOSALS RECEIVED:**

The search for a new vehicle has resulted in receipt of quotes from the following emergency equipment manufacturers:

<u>M &amp; W Fire Apparatus, Inc.</u>	<b>\$132,474.00</b>
<u>Chief's Fire and Rescue, Inc.</u>	<b>\$102,600.00</b>
<u>Hackney Emergency Vehicles</u>	<b>\$ 99,174.00</b>
<u>Horton Emergency Vehicles</u>	<b>\$ 96,823.00</b>

## APPENDIX 8

### KVRS 1999 Financial Analysis:

#### Topics covered in this section:

- Administrative Standards and Practices
- Tax-Exempt Status
- Definition of Fiscal Year
- Financial Activities
- Financial Position
- Annual Budget for the Current Fiscal Year

#### Administrative Standards and Practices

The Kempsville Volunteer Rescue Squad:

- Meets the Better Business Bureau's Standards for Charitable Solicitations. A copy of the BBB report is available upon request.
- Requires that two corporate officers sign each of its checks, and that no expenditure be made without an official written purchase order.
- Receives financial planning assistance from Raymond James Financial, Inc., and abides by its published Investment Allocation Plan.
- Is audited annually by Corbin & Company of Virginia Beach, Virginia.

#### Tax Exempt Status

The Kempsville Volunteer Rescue Squad is tax exempt under section 501(C)(3) of the Internal Revenue Code. It is eligible to receive contributions deductible as charitable donations for federal income tax purposes. A copy of the IRS Letter of Determination of 501(C)(3) Status is available upon request.

#### Definition of Fiscal Year

The KVRS fiscal year runs from July 1st to June 30th.

#### Financial Activities

*TOTAL OPERATING BUDGETS*, past five years:

FYE 1998: \$981,469  
FYE 1997: \$1,009,188\*  
FYE 1996: \$161,938  
FYE 1995: \$180,267  
FYE 1994: \$191,828

\*Starting with the Fiscal Year Ending 1997, our accountant advised us to report the estimated fair value of donated services and facilities, including hours worked by volunteers, and building/garage space and utilities provided by the City of Virginia Beach. Under the old reporting rules, the equivalent Total Operating Budget for FYE97 would have been \$253,523.

*Latest Year's Operating Statement:*

Where it came from:

84% from Contributed services and facilities  
14% from Contributions  
02% from Investment interest and dividends  
<1% from Cash support from City of Virginia Beach

Where it went:

94% to Program Services  
00% to Program Assets  
04% to Fund Raising  
03% to Administrative support services

**Financial Position**

KVRS has recorded the following net worth values. Only the figures for the past five years, if available, will be listed here:

June 30, 1998: \$447,464  
June 30, 1997: \$491,587  
June 30, 1996: \$373,094

**Annual Budget for the Current Fiscal Year**

*TOTAL OPERATING BUDGET:* \$1,025,188 (up 3% from average of past two years):

Where it will come from:

80% from Contributed services and facilities  
18% from Contributions  
02% from Investment interest and dividends  
<1% from Cash support from City of Virginia Beach  
<1% from Sale of apparatus & equipment

Where it will go:

89% to Program Services  
05% to Program Assets  
04% to Fund Raising  
02% to Administrative support services