



EMERGENCY RESPONSE TRUCK PROPOSAL



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INTRODUCTION

This law enforcement agency is responsible for protecting our community by creating an Emergency Service Unit (ESU) that is tasked with providing our agency with a tactical option when dealing with dangerous situations.

To address incidents that have occurred over our history, equipment has been acquired to meet these situations. The tactics and training are not only for ESU personnel but all the needs of the department and has evolved to better handle critical situations. This has led to the customization of vehicles purchased to carry this equipment which will advance the response of personnel to these situations.

GOALS AND OBJECTIVES

These vehicles have had an extensive history with the ESU and our Patrol Division and have provided a critical part in the successful resolution of many situations and have become a pivotal part of the Department's operations.

The current vehicle may be approaching replacement or may not be adequate to support the equipment required to carry out our operations and tasks so planning should be conducted now for budget and operational needs. As vehicles come into operational use for this purpose, they have evolved from sedans to small and then larger SUV's requiring custom cabinets and vehicle chassis improvements to meet these needs.

The goal of this proposal is to assist our agency with planning for the replacement of the current vehicle with one that would better fulfill the needs of the Operations Division primarily the Emergency Service Unit and Patrol Division.

The objectives to be addressed by a vehicle of this type are:

- 1) Increase ability to react and control situations that are rapidly evolving.**
- 2) Providing a vehicle that can deploy current and future equipment faster than the current assigned vehicle.**

In past years this agency has dealt with an increasing number of critical incidents within the borders of our community and these vehicles have played an important part in the successful resolution of each of those incidents. Time and time again, we have learned that the time to react and to deal with them is very short. Historically, there have been an increasing number of incidents having to be addressed at the same time or one following the other.

These incidents have occurred at every possible type of location that can be imagined and the number of persons that can be potentially be involved range from a single tactical officer to a number of officers and numerous victims.

These incidents have occurred at all hours of the day or night and time of the year. We have assisted other agencies with incidents occurring in their jurisdictions as they have become quickly overwhelmed, needing a rapid and decisive response.

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This vehicle has to address the times that we now live in, times that require all agencies to not only respond to the threats common to a municipality or city, but to threats not dreamed of twenty years ago. Many of these threats show no signs of diminishing in the future as most communities will also increase in size. As the threats evolve, so will the need for department tactics and vehicles.

PROPOSED VEHICLE

The vehicle being proposed is a 4X4 truck chassis with a custom fabricated apparatus style body especially designed for the Emergency Services. In New York City this vehicle is known as the Radio Emergency Patrol (REP) truck used and designed by the NYPD. This vehicle will greatly enhance this department's ability for personnel and our Emergency Service Unit to deal with many situations:

- 1) The ability to provide *scene lighting* at a crime scene or accident using mounted and hand held lighting systems powered by the vehicle's on board power.
- 2) The ability to provide *equipment* that is required at the scene and cannot be safely placed in many smaller vehicles in compartments to provide easy access and safe, secure storage.
- 3) The ability to *move our Emergency Response Technicians to an incident*. The crew cab can be designed for two officers with access to crucial equipment in the cab or be large enough to carry up to five officers when required.
- 4) A *strong power train and chassis enables* the vehicle to handle the equipment load and demands often required by the Emergency Services Unit.
- 5) The more *secure compartment design and accessibility* of equipment in assigned compartments allows for personnel to become familiar with locations, resulting in a decreased time in deploying this equipment and easier access.
- 6) The compartment body mounted on a cab and chassis similar to ambulances and larger apparatus *makes service easier* with fewer personnel involved in servicing the vehicle and time out of service.

The REP Truck gives the Department more service life than a SUV does and because it is a truck, its cost is a different line item in the budget as compared to a car. Its operational service life and its improvement of much needed equipment capabilities over an SUV should be weighed when examining the overall vehicle package. If the truck portion is damaged beyond repair due to an accident the body can be transferred in a reasonably short amount of time after a replacement truck is located or acquired.

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The cost of the vehicle in this proposal is approximately \$120,000.00 dollars and can be delivered within eight to twelve weeks once the bid has been awarded, the chassis and cab is available and production plans are approved.

When the vehicle has reached its need for replacement, the cost is similar to the ambulance program where the chassis only is replaced. The compartment box can be removed and placed on a new chassis at far less than replacing the entire unit. The chassis is usually available on state contract or a local coop program to save money and order time.

The New York City Police Department has shown the practical contribution this type of vehicle can provide to its officers on the street to deal with situations that are occurring as they arrive, along with cost effectiveness of a vehicle of this type, being the leader in vehicle applications to law enforcement. Many other agencies have followed around the country. In New Jersey, agencies have seen the need and the application for this vehicle, like the ***NJ State Police, Union City, Fort Lee, Passaic County Sheriff, and the Port Authority of NY and NJ*** to name just a very few.

Vehicle Information

This vehicle is better capable to support the mission of the Emergency Services Unit at many types of scenes and gives a supervisor more enhancements compared to a lesser equipped vehicle.

Vehicle enhancements:



Emergency starting system: A receptacle in the grill area to an illuminated switch on the dash activated by ignition to jump dead vehicles batteries and supply power to 12 volt rescue tools if needed.



Push bumper: Steel push bumper with grille guard, hooks and a ½" polyethylene cover to protect the front of the vehicle and push or pull obstructions out of the way as well as pull down gates or window guards for forcible entry in a tactical or rescue situation.



Diamond plate: On the body in specific areas where tools and equipment may damage the body and compartment doors. Also on the roof a special non-slip diamond plate for safety when using ladders for second story entry.



Door lock: Special locking rod in each rear side compartment to secure the forward compartment doors allowing more security to weapons and other sensitive equipment.



Compartment lights: Adequate lighting in all compartments to illuminate equipment access at night and also includes a flashing light on the dash to alert the operator that a compartment may not be secure.

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In body power outlets: In rear compartments to charge batteries of equipment and radios while the vehicle is driven and when at home base.



High security weapons locking system: A secure way so weapons can remain in the vehicle and ready for deployment.

Flood lighting: High power lighting on all sides of the body to illuminate the scene using the vehicle's own power.

Custom aluminum body: Designed similar to ambulances and fire apparatus for over 10 years of service and much lighter than steel so more equipment can be stored without taxing the suspension and drive train.



Adequate storage: Space top secure and carry equipment already in inventory and equipment to be purchased in the future.



Double wall insulated storage area: This provides added insulation for protecting the expensive equipment it contains as this vehicle is always outside and exposed to the weather.



Adjustable strong shelving system: All shelving is adjustable to meet the needs of ever changing equipment and technologies. Previous equipment suffered from recurring problems of storage systems breaking down. This results in additional wear on equipment and increased damage. Having a system designed to handle this equipment addresses this problem and provides a means to adjust the vehicle as needed without major work to the vehicle.

Chassis Competitive Strengths:

Surrounding Departments with this type of vehicle recommend the F-550 4X4 for handling and strength of the chassis. Agencies that have gone with a two wheel drive chassis have had serious handling problems with the vehicles both in bad weather conditions and in responding to incidents. The 4X4 chassis greatly improves handling in poor conditions and is of a major improvement in getting into more difficult terrain.

The manufacturers of these types of vehicles also highly recommend the F-550 chassis and prefer to build on that but will build on any chassis a customer will provide. The gas engine power train is more of a benefit for this type of vehicle as it can be worked on by Department mechanics.

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2009 Ford F-550 Super Duty Chassis Cab Specifications:

Maximum Payload Weight Ratings	Crew Cab		
Wheelbase (in.)	200		
Overall length	285.4		
F-550-DRW 4X4	11,710		
Ford certification for emergency vehicle use			
Maximum Loaded Trailer Weight	Axel Ratio	GCWR	Crew Cab
Ratings (lbs.)			
F-550 DRW 4X4	4.88	33,000	23,700
Engine	6.4L turbo diesel		

Command & Control

This vehicle is an excellent platform for command operations, having the additional room and equipment contained in it for multiple events besides ESU operations. This vehicle can assist the line supervisor on the road during those first critical moments in organizing response by patrol personnel. In a critical incident, this line vehicle can aid ESU supervisors in preparing for the team response by providing him with a work area to base operations.

It is an excellent example of a vehicle design that can assist officer response in those situations where officers are operating outside of the primary coverage area where mutual aid is requested by another agency. The ability to have a vehicle that can support small to medium response has again proved itself. This has been a major advantage used by responding officers called on by other departments in time of need.

SUMMARY

This truck addresses many concerns both from an operational and administrative standpoint for the Department. Its ability to provide additional equipment rapidly and in a more organized manner to a number of situations should speak for itself. We have learned that minutes truly do count. The body provides not only a safer means of transporting specialized equipment, but also offers high security and rapid access.

A patrol car or small SUV is very limited to the equipment it can safely and securely transport. Buying ballistic shields and tactical equipment to add to the already confined space is not a solution and also is not flexible for adding new equipment as it is developed and available. With the push towards quick patrol response to situations, this vehicle fulfills this need. This truck should be viewed as a long-term investment that could be shared offering many functions with the additional equipment it carries. Current vehicles can't compete with the needs and issues facing this agency.

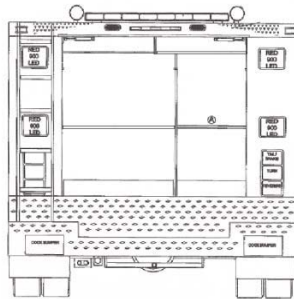
It is also a positive public relations apparatus within the community. The public will see this vehicle and the media will most likely use it in backdrops at incident locations, which is commonly seen in New York City media and almost all news reports. A crucial point to the community is the department is prepared for any type of situation, from an

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active shooter incident and many other possible emergency situations. The community has developed a sense of pride in our ability to protect it and that we are a leader in our community, county and state as we have assisted many other agencies.

This truck allows equipment to be on the street for day-to-day use, accessible to officers to handle the scene of a normal patrol call, a critical incident, or a planned tactical operation. Current vehicles and their predecessors have proven the value of having this REP vehicle. We have learned that quick response performed in an organized manner greatly increases a victim's chance of survival and control of the scene. This vehicle design provides additional room for equipment that will be used to improve operations without having to send additional vehicles with equipment to a scene if they are available resulting in delays. Our trademark has always been a progressive agency and a leader in addressing threats facing our citizens. This vehicle will address those concerns while improving our abilities into the future.

COMPARTMENT BOX



Rear Compartments Equipment Inventory

27 ft. Collapsible ladder	Bag for WMD Suits (5)
Dog Snare	Bag for spare Respirators
Mirror Pole	Power entry tool kit
Bennelli Shotgun 1	Spy stick scope
2 Tulfoc Single Rack	Door opening kit
1 870 Shotgun	Fire Extinguisher
4 AR-15 mag pouches 4 mag	Inverter plugs
1 ammo can shot gun shells	Night vision (5)
1 ammo can 40 cal ammo	Thermal Camera
1 ammo can 223 ammo	Tow strap
2 40mm sponge rounds	Camera system
6 distraction devices	Riot shields 6)

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Passenger Side Compartments Equipment Inventory

Rear Compartment L3

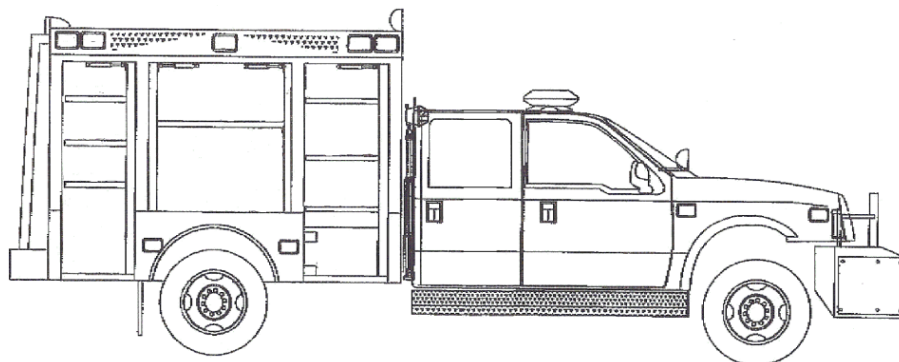
1 Tulfoc Quad Rack
Arwen Launcher
40 mm Multi launcher
37mm launcher
40mm Launcher
37mm Pistol/Pouch (5) rds
Pistol gripshotgun (5) TKO rds
870 Pump shotgun Launcher Cup
Less lethal Vest (32) rds
Pouch OC Ferret Rds (6)
Pouch 40 mm Rds (8)
(4) Ammo Cans LI rds
12 ga LI rds
Mk-21 (1)
Riot Pack

Center Compartment L2

Ballistic Shields (4)
Ballistic Helmets (2)
Entry Packs (2)
Ram Pry
Bolt cutters
EDP Shield
Two Man Ram
Ballistic Vest (4)
Ballistic Plates (12)
Portable Stretchers (4)

Forward Compartment L1

Flex Cuffs
Binoculars
C⁰2 Extinguisher
Spy stick scope
Door opening kit
Fire Extinguisher
Inverter plugs
Night vision (5)
Thermal Camera
Tow strap
Camera system
Riot shields (6)



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Drivers Side Compartments Equipment Inventory

Rear Compartment R3

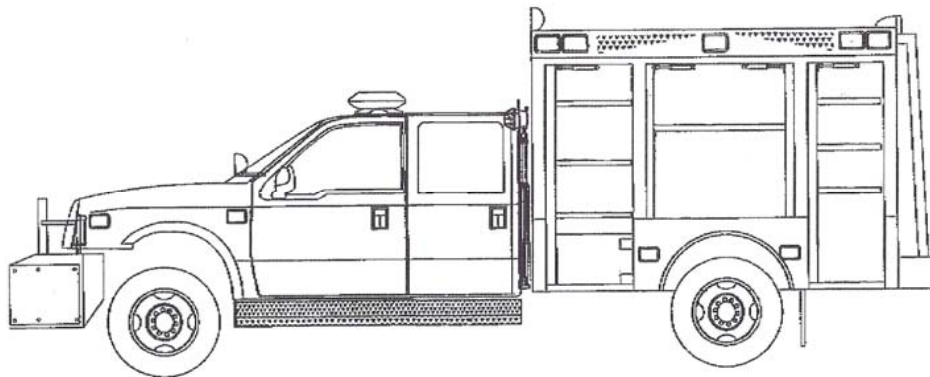
1 Tulfoc Quad Rack
M4 / M203 2
Colt Commando's 2
Bennelli Shotgun 1
2 Tulfoc Single Rack
1 870 Shotgun
4 AR-15 mag pouches 4 mag
1 ammo can shot gun shells
1 ammo can 40 cal ammo
1 ammo can 223 ammo
2 40mm sponge rounds
6 distraction devices

Center Compartment R2

Ballistic Shields (4)
Ballistic Helmets 2
Entry Packs (2)
Ram Pry
Bolt cutters
EDP Shield
Two Man Ram
Ballistic Vest (4)
Ballistic Plates (12)
Portable Stretchers (4)

Forward Compartment R1

Flex Cuffs
Binoculars
C^o2 Extinguisher
Spy stick scope
Door opening kit
Fire Extinguisher
Inverter plugs
Night vision (5)
Thermal Camera
Tow strap
Camera system
Riot shields 6)



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Appendix



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