

**FRIPP ISLAND PUBLIC SERVICE DISTRICT  
FRIPP ISLAND FIRE DEPARTMENT**

**REQUEST FOR PROPOSALS  
RFP 2020  
TOP MOUNT COMMERCIAL PUMPER**

The Fripp Island Public Service District (FIPSD) is requesting proposals from qualified dealers of fire fighting apparatus for the furnishing of all necessary labor, equipment and material for the Fire Apparatus and other equipment as outlined in the following specifications.

Proposals are due by and will be publicly opened at **1:00 PM, September 25, 2020**. Proposals should be e-mailed as attached documents to [angiehughes@fipsd.org](mailto:angiehughes@fipsd.org) or mailed to FIPSD, Attn: District Manager, at 291 Tarpon Boulevard, Fripp Island, SC 29920. All proposals should be clearly marked "RFP 2020 Top Mount Commercial Pumper." Proposals must address all the requirements contained within Sections 3.0 and 4.0 of this RFP in order to be considered responsive.

All offerors may submit questions or requests for clarification in writing by no later than **September 18, 2020 at 1:00 PM**. Any inquiries concerning the request for proposals should be addressed to the District Manager. After that date, no more questions or requests will be accepted.

The proposal evaluation process will be completed within twenty (20) days of receipt of proposals, and the prospective provider of this service will be identified. The pricing data reflected in your proposal must be good through **November 15, 2020**.

A notice of intent to award a contract will be posted within twenty (20) days of the public opening at 291 Tarpon Boulevard, Fripp Island SC 29920. All offerors shall have the right to protest under Section 7-600 of the District's procurement regulation.

The FIPSD reserves the right to accept or reject any or all proposals received as a result of this request for proposals or to negotiate with all qualified offerors, or to cancel, in part or in its entirety, this request for proposals if it is in the FIPSD's best interest to do so.

This solicitation does not commit the FIPSD to award a contract or to pay for any costs incurred in the preparation of your proposal or to procure or contract for any goods or services.

Your proposal must be signed by an official of your company authorized to commit to and enter into a formal contract for goods and services.

The FIPSD does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or in the provision of goods and services.

## **1.0 SPECIAL INSTRUCTIONS TO OFFERORS:**

### **1.1 Purpose of RFP**

This request solicits proposals to furnish and deliver to the FIPSD a complete fire apparatus, related equipment and preventive maintenance services on such apparatus. Certain detailed specifications are attached and cover the requirements as to the type of apparatus, equipment, related preventive maintenance services and standards to which the fire apparatus shall conform. Details of construction and materials which are not otherwise specified are left to the discretion of the contractor. RFP requirements can be found in Sections 3.0 and 4.0 of this document.

It is the FIPSD's intent to select the most qualified vendor based on an evaluation of the proposals utilizing the following selection criteria:

- Depth and reputation of the contractor in the field of fire apparatus construction
- Adherence to specifications and requirements outlined in the RFP
- On-going services and warranty support provided by vendor and manufacturer
- Schedule of delivery
- Cost of Apparatus, Equipment and Services

### **1.2 General Information about the Fripp Island Public Service District**

The Fripp Island PSD is a governmental body that provides beach erosion control, fire protection, and water and wastewater services to more than 1,600 customers (both residential and commercial) on Fripp Island. The District was created by Act No. 1042 of the Acts and Joint Resolutions of the General Assembly of the State of South Carolina for the year 1962. Act No. 1042 has been periodically amended since its enactment. The District is governed by a six-member Board of Commissioners. Commissioners are elected by registered voters of the District during general elections.

The Fripp Island Fire Department is a fully staffed fire department providing fire suppression, medical emergency response, hurricane emergency management, search and rescue functions, water rescue, and education and training in fire prevention to the residents and guests on Fripp Island.

## **2.0 ADMINISTRATIVE AND CONTRACTUAL INFORMATION**

### **2.1 Inquiries**

All inquiries for information regarding selection criteria, proposal submission requirements, or other concerns shall be directed to:

Angel Hughes, District Manager  
Fripp Island PSD  
291 Tarpon Boulevard  
Fripp Island, SC 29920  
843-838-2400  
[angiehughes@fipspd.org](mailto:angiehughes@fipspd.org)

### **2.2 RFP Specifications**

This RFP is intended to describe the PSD's requirements and provide a response format in sufficient detail to secure comparable proposals.

**2.3 Implied Requirements**

All products and services not specifically mentioned in this RFP, but which are necessary to provide the functional capabilities described by the vendor, must be included in the proposal.

**2.4 Vendor-Supplied Materials**

Any material submitted by a vendor shall become the property of the PSD unless otherwise requested at the time of submission. Any material considered confidential in nature must be so marked.

**2.5 Vendor's Proposals**

Vendors must submit a response to this RFP in writing. The vendor's proposal must follow the format provided in Section 4.0 of this document. Any proposals that do not follow the format outlined in this RFP will be deemed non-responsive.

**2.6 Economy of Preparation**

Proposals should be prepared simply and economically. Emphasis should be placed on clarity and content. Sections 4.3, 4.4 and 4.5 should serve as checklists to ensure that all requirement have been met.

**2.7 Response Date**

Proposals must arrive at the PSD offices on or before the date and time specified in this RFP to be considered. Proposals not received by the PSD by proposal closing time will be returned, after receipt, unopened to the vendor.

**3.0 RFP EVALUATION PROCESS**

**3.1 Review of Proposals**

The review of submitted proposals will occur as soon as practical following the date they are due. The review process will involve evaluating all proposals for completeness, conformity, clarity, and compliance to the RFP requirements. Proposals not meeting minimum requirements will be considered non-responsive and excluded from further consideration.

**3.2 MANDATORY Criteria:**

1. All forms and questions must be complete and submitted with the proposal. **Omissions and variations shall result in immediate rejection of the proposal.**
2. Company must have an established reputation in the field of fire apparatus construction and have been in business for a minimum of 20 years. Furthermore, neither the original equipment manufacturer (OEM) nor parent company of the OEM shall have ever been fined or convicted of price fixing, bid rigging, or collusion in any domestic or international fire apparatus market (no exception).
3. If offerer represents more than one fire apparatus company or brand of apparatus, they must only offer one brand and the highest quality apparatus that meets specifications.
4. Each offerer shall furnish satisfactory evidence of their ability to construct and/or procure the apparatus specified.

5. Any apparatus manufacturer or their parent company who has had a performance bond called in the last 10 years shall be declared non-responsive and any proposals received from these manufacturers shall be immediately rejected (no exception).
6. Each proposal shall be accompanied by a set of manufacturer's specifications consisting of a detailed description of the apparatus, construction methods, and equipment proposed to which the apparatus furnished under contract shall conform. These specifications shall indicate size, type, model and make of all component's parts and equipment, providing proof of compliance with each and every item in the advertised specifications.
7. Apparatus proposed by the dealer shall meet the applicable requirements of the National Fire Protection Association (NFPA) as stated in current edition at time of contract execution. Fire department's specifications that differ from NFPA specifications shall be indicated in the proposal as "non-NFPA".
8. To demonstrate the quality of the product and service, each proposer shall provide a list of at least three (3) fire departments/municipalities in the region that have bought a second time from the representing dealer. An exception to this requirement shall not be acceptable.
9. A customer reference list shall be provided with each bid. The reference list shall include a minimum of five (5) Departments within South Carolina who currently operate the brand of apparatus being bid. Reference information shall include but not be limited to Department name, contact information and make/model of apparatus in service.

### **3.3 Vendor Selection**

After the review of proposals has been completed, the preferred vendor will be identified for final negotiations and/or contract award. The content of this RFP and the successful vendor's proposal will become a part of the final contract documents.

## **4.0 RFP REQUIREMENTS AND GENERAL INFORMATION**

### **4.1 Service and Warranty Support**

1. To ensure full service after delivery, the proposing dealership must be capable of providing service when required.
2. The proposing dealership shall provide ten (10) years of on-site annual service to include fluid changes, filters and lubrication as recommended by the manufacturer.
3. The proposer shall show that the company is in position to render prompt service and to furnish replacement parts.
4. Each proposer must be able to display that they are actively in the fire apparatus service business by operating a factory authorized service center and parts repository capable of satisfying the warranty service requirements and parts requirements of the vehicle(s) being purchased.
5. The proposer must state the location of this authorized service center. This service center must have a staff of factory-trained mechanics, well versed in all aspects of service for all major components of the apparatus. The service center must be within fifty (50) miles of the Fire Department or have mobile capabilities.
6. There shall be a minimum of one (1) class provided and held at the Fire Department by a factory certified trainer. The class shall consist of basic orientation of the apparatus and shall cover basic operations of cab, chassis, pump, and body components that are

included on the apparatus.

#### **4.2 NFPA 2016 Standards**

1. This apparatus specification includes a commercial chassis that has not been certified to meet the requirements of NFPA 1901 by the chassis manufacturer. Although this chassis may comply with certain aspects of the standard, the chassis manufacturer has not certified that all criteria have been met. The body as built by the manufacturer must comply with the NFPA standards effective January of 2016.

#### **4.3 Specifications (Checklist)**

1. CHASSIS – The chassis shall be a Freightliner, Model M2, 106MD Conventional Chassis. (non-NFPA)
2. TIRE PRESSURE MANAGEMENT – There shall be a tire alert pressure management system provided that shall monitor each tire's pressure. A sensor shall be provided on the valve stem of each tire for a total of six (6) tires.
3. FRONT HUB COVERS – Stainless steel hub covers shall be provided on the front axle. An oil level viewing window shall be provided.
4. HUB COVERS (rear) – A pair of stainless steel high hat hub covers shall be provided on rear axle hubs.
5. CHROME LUG NUT COVERS – Chrome lug nut covers shall be supplied on front and rear wheels.
6. AIR COMPRESSOR, BRAKE SYSTEM – The air compressor shall have an output sufficient to provide adequate braking for the type of vehicle being proposed.
7. AIR DRYER – An air dryer with a heater shall be provided.
8. AIR INLET – A single air inlet with male coupling shall be provided. It shall allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet shall be located near the pump operator's position. A mating female coupling shall also be provided with the loose equipment.
9. ENGINE
  - a. Model: Electronic Cummins B6.7 360EV
  - b. Number of Cylinders: Six (6)
10. ENGINE WARRANTY – The engine shall come with a warranty provided by the engine manufacturer.
11. HIGH IDLE – A high idle switch shall be provided on the instrument panel inside the cab. Activating the switch shall cause the vehicle to automatically maintain a preset engine rpm.
12. ENGINE EXHAUST BRAKE – An exhaust brake with an integral variable geometry turbo charger (VGT) shall be provided. The control shall be located on the instrument panel within easy reach of the driver.
13. FUEL/WATER SEPARATOR – A Detroit fuel/water separator shall be provided on the chassis. It shall include a "water in fuel" sensor, hand primer and a 12-volt pre-heater.
14. AIR INTAKE, w/EMBER SEPARATOR – The air inlet shall be equipped with a stainless steel mesh to separate water and burning embers from the air intake system such that particulate matter larger than 0.039" (1.0 mm) in diameter cannot reach the air filter element. This shall comply with NFPA 1901 and 1906 standards.
15. BUMPER – A one (1)-piece, 10" high, stainless steel bumper shall be attached to the front of the frame. A 9" channel shall be mounted directly behind the bumper for additional strength. The bumper shall be extended 19" from the front face of the cab.

16. GRAVEL PAN – A gravel pan, constructed of bright aluminum treadplate, shall be furnished between the bumper and cab face. The gravel pan shall be properly supported from the underside to prevent flexing and vibration of the aluminum treadplate.
17. TOW HOOKS – Two (2) chromed steel tow hooks shall be installed under the bumper and attached to the front frame members. The tow hooks shall be designed and positioned to allow up to a 6,000 lb straight horizontal pull in line with the centerline of the vehicle. The tow hooks shall not be used for lifting of the apparatus.
18. HOSE TRAY – A hose tray, constructed of aluminum, shall be placed in the center of the bumper extension. The tray shall have a capacity of 100' of 1.5" double jacket cotton-polyester hose. Black rubber grating shall be provided at the bottom of the tray. Drain holes shall be included.
19. COVER, HOSE TRAY – A bright aluminum treadplate cover shall be provided over the one (1) hose tray. The cover shall be attached with a stainless steel hinge and located front bumper tray. One (1) "D" ring latch shall secure the cover in the closed position and a pneumatic stay arm shall hold the cover in the open position.
20. STEP LIGHTS – There shall be white LED step lights provided to meet NFPA step lighting requirements. The lights shall be activated when the adjacent door is opened.
21. AIR CONDITIONING – An air conditioner shall be provided that is integral with heater and defroster system.
22. SEATING CAPACITY – The seating capacity in the cab shall be two (2). Seating inside the cab shall consist of an air-ride driver seat and a fixed companion seat.
23. SEAT BELT WEB LENGTH – NFPA 14.1.3.2 and 14.1.3.3 requires effective seat belt web length for a Type 1 lap belt for pelvic restraint to be a minimum of 60 in., and a Type 2 pelvic and upper torso restraint-style seat belt assembly to be a minimum of 110 in. Per Fire Department specification of a commercial chassis, this apparatus shall have seat belts of the required length. These belts shall provide sufficient length for large firefighters in bunker gear. This apparatus shall be compliant to NFPA standards effective at time of contract execution. All seating positions in the cab and crew cab shall have highly visible (orange) seat belts.
24. EMERGENCY SWITCH PANEL – An emergency switch panel shall be provided in the cab. The switch panel shall be located within reach of the driver. All NFPA required emergency lights shall be controlled from the master emergency switch. References within this specification to a "switch in the cab" for zone specific options shall mean the emergency master switch.
25. "DO NOT MOVE APPARATUS" INDICATOR – A flashing red indicator light (located in the driving compartment) shall be illuminated automatically per the current edition of NFPA. The light shall be labeled "Do Not Move Apparatus If Light Is On". The same circuit that activates the Do Not Move Apparatus indicator shall not activate any alarm when the parking brake is released.
26. DO NOT MOVE TRUCK MESSAGES – A message shall be displayed in view of the driver whenever any of the following conditions exist:
  - a. CAB DOOR OPEN (Any Cab Door Open with ignition on)
  - b. LH COMPARTMENT OPEN (Any Left Hand Compartment Door Open)
  - c. RH COMPARTMENT OPEN (Any Right Hand Compartment Door Open)
  - d. REAR DOOR OPEN (Any Rear Compartment Door Open)
  - e. LH LIGHT POLE RAISED (Left Hand Pole Light Raised)
  - f. RH LIGHT POLE RAISED (Right Hand Pole Light Raised)
27. A warning message shall also be displayed for any other device that is opened, extended

- or deployed that creates a hazard or is likely to cause major damage to the apparatus if the apparatus is moved.
28. CAB PERIMETER SCENE LIGHTS – There shall be two (2) white LED lights, one (1) for each cab door. These lights shall be activated automatically when the battery switch is on and the exit doors are opened or by the same means as the body perimeter scene lights.
  29. PUMP HOUSE PERIMETER LIGHTS – There shall be four (4) white LED lights mounted in the following locations:
    - a. One (1) light each under both driver's and passenger's side top mount pump panel access step, and under both driver's and passenger's side pump panel running board
  30. BODY PERIMETER SCENE LIGHTS – There shall be two (2) white LED lights under the rear step area of the body. The perimeter scene lights shall be activated when the parking brake is applied.
  31. SCENE LIGHTS – There shall be two (2) LED scene lights provided. These lights shall direct light at a downward angle via internal optics. There shall be one (1) light each side on the rear of the apparatus. These lights shall be installed no higher than 72.00" above the ground. A control for the lights selected above shall be a switch at the driver's side switch panel.
  32. WALKING SURFACE LIGHT – There shall be LED floodlight(s) with bolt mount provided to illuminate the entire designated walking surface on top of the body. The light(s) shall be activated when the body step lights are on.
  33. 12 VOLT LIGHTING – There shall be two (2) 12 volt DC LED combination spot/floodlights installed on the apparatus. The lights shall be installed on extendable poles one each on the driver's and passenger's side. The light(s) to be installed on a thru body/surface mount top adjust pull-up pole(s) connected to the Do Not Move Truck Indicator circuit in the cab. The light pole(s) to be installed without handle holder(s) and a not stowed sensor connected to the Do Not Move Truck Indicator Light in the cab. The light shall be controlled by the following:
    - a. a switch at the driver's side switch panel.
    - b. a switch at the pump operator's panel.
  34. WATER TANK – Booster tank shall have a capacity of 1000 gallons and be constructed of polypropylene plastic.
  35. DIRECT TANK FILL – There shall be one (1) - 2.50" gated external tank fill(s) installed and properly labeled at the rear of the water tank, located left side, with the valve installed as low as practical for easy hose connection. A 2.50" full flow ball valve with 2.50" piping and a 2.50" (F)NST chrome swivel shall be located at the inlet. A dealer furnished elbow adapter and plug shall be provided for the tank fill.
  36. HOSEBED ILLUMINATION – The hose bed shall be illuminated with LED lighting. The lights shall be controlled from a switch at the rear of the truck .
  37. HOSE BED DIVIDER – One (1) adjustable hosebed divider shall be furnished for separating hose. Divider shall be fully adjustable by sliding in tracks, located at the front and rear of the hose bed.
  38. HOSE BED HOSE RESTRAINT – The hose in the hose bed shall be restrained by a black nylon Velcro® strap at the top of the hose bed. At the rear of the hose bed, 2.00" black nylon webbing with a box pattern shall attach at the top rear outside. The webbing shall have straps connected with 2.00" cam buckle fasteners located at the rear body sheet below the hose bed.
  39. RUNNING AND TAILBOARDS – Running boards and tailboard shall be fabricated of

- .125" bright aluminum treadplate. A splash guard shall be provided above the running board treadplate.
40. TOW BAR – A tow bar shall be installed under the tailboard at center of truck. Tow bar assembly shall be designed and positioned to allow up to a 30-degree upward angled pull of 17,000 lb, or a 20,000 lb straight horizontal pull in line with the centerline of the vehicle. Tow bar design shall have been fully tested and evaluated using strain gauge testing and finite element analysis techniques.
  41. COMPARTMENTATION – Body and compartments shall be fabricated of .125" aluminum. Side compartments shall be an integral assembly with the rear fenders. Circular fender liners shall be provided for prevention of rust pockets and ease of maintenance. Compartment flooring shall be of the sweep out design with the floor higher than the compartment door lip. Drip protection shall be provided above the doors. All screws and bolts which protrude into a compartment shall have acorn nuts on the ends to prevent injury.
  42. LEFT AND RIGHT SIDE COMPARTMENTATION –
  43. A full height, roll-up door compartment ahead of the rear wheels shall be provided. The compartment interior shall be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment shall be at least 26" wide x 63" high.
  44. A roll-up door compartment over the rear wheels shall be provided. The clear door opening of this compartment shall be at least 59" wide x 35" high.
  45. A full height, roll-up door compartment behind the rear wheels shall be provided. The compartment interior shall be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment shall be 48" wide x 63" high.
  46. REAR COMPARTMENTATION – A roll-up door compartment above the rear tailboard shall be provided. Rear compartment shall be open into the rear side compartments. Clear door opening of this compartment shall be at least 34" wide x 48" high.
  47. ROLLUP DOOR, ALL COMPARTMENTS – There shall be seven (7) roll-up compartment doors installed. The seven roll-up doors installed shall be double faced aluminum construction, painted one (1) color to match the lower portion of the body, except rear compartment shall be satin finished. A heavy-duty magnetic switch shall be used for control of open compartment door warning lights. Closing of all roll-up doors shall not require releasing, unlocking, or unlatching any mechanism and shall easily be accomplished with one hand.
  48. COMPARTMENT LIGHTING – All seven (7) compartments shall be equipped with white LED compartment light strips. Each light strip shall be centered vertically along the door framing. Opening the compartment door shall automatically turn the compartment lighting on.
  49. MOUNTING TRACKS – There shall be five (5) sets of tracks with shelves for mounting in the four full height compartments and the rear compartment.
  50. HARD SUCTION HOSE STORAGE – Storage for two (2) hard suction hoses, mounted side by side, shall be provided inside the hosebed on the left side. A section of hose bed grating shall be provided above the hard suction hose storage area. A nylon strap shall be provided at the rear of the storage area to contain the hose.
  51. EXTENSION LADDER – There shall be a 24' two-section aluminum Duo-Safety



- Series 900-A extension ladder provided.
52. ROOF LADDER – There shall be a 14' aluminum Duo-Safety Series 775-A roof ladder provided.
  53. LADDER STORAGE – The ladders shall be stored inside the upper section of the right side compartments. A partition shall be installed inside the compartments to conceal the ladder rack and allow for equipment storage. The ladders shall extend through the forward wall of the compartmentation, into the pump area. The ladders shall be stored in separate storage troughs lined with friction reducing slides to aid in loading and unloading of the ladders. Rear of ladder storage area shall be a vertically hinged door with D-ring latch to contain the ladders.
  54. FOLDING LADDER – One (1) 10.00' aluminum, Series 585-A, Duo-Safety folding ladder shall be installed in a U-shaped trough inside the ladder storage compartment.
  55. PIKE POLE STORAGE – Tubing shall be used for the storage of two (2) pike poles and shall be located in the ladder storage compartment. If the head of a pike pole can come in contact with a painted surface, a stainless steel scuffplate shall be provided. Pike Poles shall be provided by fire department.
  56. LADDER, HOSE BED ACCESS – A hose bed access ladder, constructed of aluminum rungs and extruded aluminum rails, shall be provided on the left side rear of the apparatus.
  57. ADDITIONAL STEP – One (1) additional folding step shall be provided on the front bulkheads. The step shall be bright finished, non-skid with a black coating. Each step shall incorporate an LED light to illuminate the stepping surface.
  58. MIDSHIP FIRE PUMP – Midship fire pump shall be a 1250 gpm, single stage, midship mounted, centrifugal type. Pump shall be the class "A" type.
  59. PRESSURE CONTROLLER – A pressure governor shall be provided. A pressure transducer shall be installed in the water discharge manifold on the pump. The display panel shall be located at the pump operator's panel.
  60. PRIMING PUMP – The priming pump shall conform to standards outlined in the current edition of NFPA 1901. All wetted metallic parts of the priming system are to be of brass and stainless steel construction.
  61. MAIN PUMP INLETS – A 6" pump manifold inlet shall be provided on each side of the vehicle. The suction inlets shall include removable die cast zinc screens that are designed to provide cathodic protection for the pump to reduce corrosion.
  62. MAIN PUMP INLET CAP – The main pump inlets shall have National Standard Threads with a long handle chrome cap.
  63. VALVES – All ball valves shall be Akron® Brass in-line valves. The Akron valves shall be the 8000 series heavy-duty style with a stainless steel ball and a simple two-seat design.
  64. LEFT SIDE INLET – There shall be one (1) auxiliary inlet with a 2.5" valve at the left side pump panel, terminating with a 2.5" (F) National Standard hose thread adapter. The auxiliary inlet shall be provided with a strainer, chrome swivel and plug.
  65. INLET CONTROL – The side auxiliary inlet(s) shall be controlled at the top mount control panel.
  66. INLET BLEEDER VALVE – A 0.75" bleeder valve shall be provided for the side inlet. The valves shall be located behind the panel with a swing style handle control extended to the outside of the panel. The handles shall be chrome plated and provide a visual indication of valve position.
  67. TANK TO PUMP – The booster tank shall be connected to the intake side of the pump with 4" heavy duty piping and a quarter turn 3" full flow line valve with the control

- remotely located at the operator's panel. A check valve shall be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank.
68. TANK REFILL – A 1.5" combination tank refill and pump re-circulation line shall be provided, using a quarter-turn full flow ball valve controlled from the pump operator's panel.
  69. SIDE DISCHARGE OUTLETS – There shall be two (2) discharge outlets with a 2.5" valve on the left side and one (1) discharge outlet 2.5" valve on the right side of the apparatus, terminating with a 2.5" (M) National Standard hose thread adapter with a 2.5" (F) National Standard hose thread x 2.5" (M) National Standard hose thread, chrome plated, 45 degree elbow.
  70. FRONT DISCHARGE OUTLET – There shall be one (1) 1.5" discharge outlet piped to the front of the apparatus and located on the top of the right side of the front bumper. There shall be automatic drains provided at all low points of the piping.
  71. FRONT OF HOSE BED DISCHARGE OUTLET – There shall be one (1) discharge outlet discharge(s) piped to the front of the hose bed and located right side . Plumbing shall consist of 2.5" piping with a 2.5" full-flow ball valve controlled at the pump operator's panel. The discharge(s) shall terminate with a 2.5" (M) National Standard hose thread adapter.
  72. DISCHARGE CAPS/ INLET PLUGS – Chrome plated, rocker lug, caps with chain shall be furnished for all discharge outlets 1" thru 3" in size, with the exception of the pre-connected hose outlets. Chrome plated, rocker lug, plugs with chain shall be furnished for all auxiliary inlets 1" thru 3" in size. The caps and plugs shall incorporate a thread design to automatically relieve stored pressure in the line when disconnected (no exception).
  73. OUTLET BLEEDER VALVE – A 0.75" bleeder valve shall be provided for each outlet 1.5" or larger. Automatic drain valves are acceptable with some outlets if deemed appropriate with the application. The valves shall be located behind the panel with a swing style handle control extended to the outside of the side pump panel. The handles shall be chrome plated and provide a visual indication of valve position.
  74. DISCHARGE OUTLET CONTROLS – The discharge outlets shall incorporate a quarter-turn ball valve with the control located at the pump operator's panel. The valve operating mechanism shall indicate the position of the valve. If a handwheel control valve is used, the control shall be a minimum of a 3.9" diameter stainless steel handwheel with a dial position indicator built in to the center of the handwheel. Any 3" or larger discharge valve shall be a slow-operating valve in accordance with NFPA 16.7.5.3.
  75. DELUGE RISER – A 3" deluge riser shall be installed above the pump in such a manner that a monitor can be mounted and used effectively. This deluge outlet shall flow a minimum 1000 GPM. The deluge riser shall have male National Pipe Threads for mounting the monitor.
  76. SPEEDLAYS WITH TRAY – Ahead of the pump enclosure shall be two (2) 1.75" speedlay hose beds. Each bed shall have a 2" preconnect line with a 2" quarter-turn ball valve and terminate with a 1.5" National Standard hose thread 90 degree swivel. The swivel shall be located at the top of the speedlay compartment to allow easy removal of the hose in either direction. Individual controls for the speedlays shall be at the pump operator's panel. Each compartment shall be capable of carrying 200 feet of 1.75" double jacketed hose with the one (1) compartment located above the other. A removable tray shall be provided for each speedlay hosebed. The speedlay trays shall be constructed with two (2) hand holes for easy removal from the compartment. The

- floor of the trays shall be perforated to allow for drainage and hose drying.
77. SPEEDLAY HOSE RESTRAINT – A black 1" nylon webbing design with 2" box pattern shall be provided across each end of two (2) speedlay(s) to secure the hose during travel. The webbing shall be permanently attached at the bottom of the speedlay opening. There shall be quarter turn fasteners located at the opposite end of the permanently attached webbing.
  78. PUMP CONTROL PANELS (Top Mount) – All pump controls and gauges to be properly marked and located above the pump to the rear of the walkway. Operator to face the rear of the truck when viewing the control panel from the operating position. The control panel shall be in two planes. The upper plane shall be hinged at the bottom with a full length stainless steel hinge. Both planes to be full width of the pump house structure. The side pump panels shall be 34" wide and removable for ease of maintenance with polished stainless steel trim collars around all inlets and outlets. Controls shall have chrome plated bezels encircling the opening securely mounted to the pump panel. Identification tags for the discharge controls shall be recessed within the same bezel. The discharge identification tags shall be color coded, with each discharge having its own unique color. All remaining identification tags shall be mounted on the pump panel in chrome plated bezels.
  79. WALKWAY – A 19" wide walkway shall be provided for access to the top control panel. The walkway shall be constructed of bright aluminum treadplate and properly reinforced. There shall be six (6) white LED lights provided to illuminate the walkway. The lights shall come on with the body perimeter lights.
  80. WALKWAY TOOL COMPARTMENT – A tool compartment shall be provided on each side of the walkway. Each compartment shall have an aluminum treadplate door and shall be equipped with two (2) white LED lights with chrome bezels, one (1) in each compartment .
  81. PUMP COMPARTMENT LIGHT – A compartment light shall be provided inside the pump enclosure.
  82. PUMP PANEL GAUGES AND CONTROLS – The following shall be provided on the pump panel in the pressure governor system
    - a. Engine Oil Pressure Gauge: LED bar graph display
    - b. Engine Water Temperature Gauge: LED bar graph display
    - c. Tachometer: over 1/2" high LED digits
    - d. Voltmeter: LED bar graph display
  83. OK TO PUMP INDICATOR LIGHT – There shall be a green indicator light installed on the pump operators panel that is activated when the pump is in Ok To Pump mode.
  84. VACUUM AND PRESSURE GAUGES – The pump vacuum and pressure gauges shall be liquid filled, be a minimum of 4" in diameter and shall have white faces with black lettering with a pressure range of 30"-0-600#. Test port connections shall be provided at the pump operator's panel. One (1) shall be connected to the intake side of the pump, and the other to the discharge manifold of the pump. They shall have 0.25" standard pipe thread connections and non-corrosive polished stainless steel or brass plugs. They shall be marked with a label.
  85. PRESSURE GAUGES – The individual "line" pressure gauges for the discharges shall be interlube filled be a minimum of 2" in diameter and shall have white faces with black lettering. Gauges shall have a pressure range of 30"-0-400#. The individual pressure gauge shall be installed as close to the outlet control as practical.
  86. WATER LEVEL GAUGE – There shall be an electronic water level gauge provided on the operator's panel that registers water level by means of five (5) colored LED lights.

- The lights shall be durable, ultra-bright five (5) LED design viewable through 180 degrees.
87. **LIGHT SHIELDS** – Illumination shall be provided at each pump control panel for controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus and the equipment provided on it. Lights shall be installed under a stainless steel shield. One pump panel light shall come on at the operator's panel when the pump is in "ok to pump" mode. The remaining lights to be actuated from a switch located on the pump panel.
  88. **AIR HORN SYSTEM** – Two (2) Grover air horns shall be provided and located, in the front bumper, recessed outside the frame rails. The horn system shall be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve shall be installed in-line to prevent loss of air in the air brake system. The air horns shall be located on each side of the bumper, towards the outside. A lanyard rope pull control shall be provided within reach of the driver.
  89. **AUDIBLE AND OPTICAL WARNING SYSTEMS** – Full audible and optical warning package shall be provided. All optical and audible warning devices shall meet or exceed the requirements of NFPA 1901 Chapter 13, Section 13.8 "Optical Warning Devices" and Section 13.9 "Audible Warning Devices".
  90. **LOOSE EQUIPMENT** – The following equipment shall be furnished with the completed unit:
    - a. One (1) bag of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit
  91. **COMMERCIAL CHASSIS PAINT** – The chassis shall be painted by the chassis manufacturer. It shall remain the color and commercial quality finish as provided. The primary color shall be candy apple red.
  92. **REFLECTIVE STRIPES** – Three (3) reflective vinyl stripes shall be provided across the front of the vehicle and along the sides of the cab and body. Where installed on a painted surface, the reflective band shall consist of a 1" white stripe at the top with a 1" gap then a 6" white stripe with a 1" gap and a 1" white stripe on the bottom. When installed on a roll-up door, the reflective band shall consist of a 1" red stripe at the top with a 1" gap then a 6" red stripe with a 1" gap and a 1" red stripe on the bottom.
  93. **REFLECTIVE VINYL ON FRONT BUMPER** – There shall be a reflective vinyl band provided across the front bumper.
  94. **REAR CHEVRON STRIPING** – There shall be alternating chevron striping located on the rear-facing vertical surface of the apparatus. The rear surface, excluding the rear compartment door, shall be covered. The colors shall be red and L2 fluorescent yellow green. Each stripe shall be 6" in width. This shall meet the requirements of the current edition of NFPA 1901, which states that 50% of the rear surface shall be covered with chevron striping.
  95. **JOG(S) IN REFLECTIVE BAND** – The reflective band located on each side of the apparatus body shall contain one (1) jog(s) and shall be angled at approximately a 45 degrees when installed.
  96. **REFLECTIVE STRIPE, CAB DOORS** – A white reflective stripe shall be provided on the interior of each cab door. This stripe shall be a minimum of 96 square inches and shall meet the NFPA 1901 requirement.
  97. **LETTERING** – Forty-one (41) to sixty (60) genuine gold leaf lettering, 3" high, and twenty-one (21) to forty (40) reflective lettering, 8" high, with outline and shade shall be provided. The lettering shall be totally encapsulated between two (2) layers of clear vinyl.

98. MANUALS – Manuals must be provided for the cab and chassis, fire body, pump, custom parts, and mounted/provided equipment and lights. A unit-specific service manual supplement containing parts and service information on factory installed components is also required.

**4.4 Warranties – Certificates To Be Submitted with Proposals**

1. ONE (1) YEAR MATERIAL AND WORKMANSHIP – Minimum one (1) year basic apparatus material and workmanship limited warranty. The warranty should cover such portions of the apparatus built by the manufacturer as being free from defects in material and workmanship that would arise under normal use and service.
2. CHASSIS WARRANTY –Minimum **five (5) year or 100,000 mile warranty**.
3. PAINT WARRANTY – The commercial chassis manufacturer should supply a paint warranty applicable to the paint on the chassis.
4. COMPARTMENT LIGHT WARRANTY – Minimum ten (10) year material and workmanship limited warranty should be provided for the LED strip lights. The warranty should cover the LED strip lights to be free from defects in material and workmanship that would arise under normal use.
5. TRANSMISSION WARRANTY – Minimum of **five (5) year/unlimited mileage** warranty covering 100 percent parts and labor on the transmission.
6. WATER TANK WARRANTY – The poly water tank must be provided with a lifetime material and workmanship limited warranty.
7. TEN (10) YEAR STRUCTURAL INTEGRITY – Minimum **ten (10) year** material and workmanship limited warranty on the apparatus body. The warranty should cover such portions of the apparatus built by the manufacturer as being free from defects in material and workmanship that would arise under normal use and service.
8. ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY – A roll-up door limited warranty should be provided. The mechanical components of the roll-up door should be warranted against defects in material and workmanship for the lifetime of the vehicle. A **six (6) year** limited warranty should be provided on painted and satin roll up doors.
9. PUMP WARRANTY – A minimum **five (5) year** limited warranty on parts and **two (2) year** limited warranty on labor should be provided for the pump.
10. TEN (10) YEAR PUMP PLUMBING WARRANTY – The stainless steel plumbing components and ancillary brass fittings used in the construction of the water/foam plumbing system should be warranted for a period of **ten (10) years or 100,000 miles**.
11. TEN (10) YEAR PRO-RATED PAINT AND CORROSION – Minimum **ten (10) year** pro-rated paint and corrosion limited warranty on the apparatus body. The warranty should cover painted exterior surfaces of the body to be free from blistering, peeling, corrosion, or any other adhesion defect caused by defective manufacturing methods or paint material selection that would arise under normal use and service.

12. THREE (3) YEAR MATERIAL AND WORKMANSHIP – The gold leaf lamination should be provided with a minimum **three (3) year** material and workmanship limited warranty. The warranty should cover the gold leaf lamination as being free from defects in material and workmanship that would arise under normal use and service.

#### **4.5 Certificates and Testing**

1. VEHICLE STABILITY CERTIFICATION – The fire apparatus manufacturer must provide a certification stating the apparatus complies with NFPA 1901, current edition, section 4.13, Vehicle Stability. The certification shall be provided at the time of proposal.
2. CAB INTEGRITY – The cab must be tested to and pass the following standards:
  - ECE Regulation No.29
  - SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks.
3. AMP DRAW REPORT –
  - The proposer must provide, at the time of proposal and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.
  - The manufacturer of the apparatus must provide the following:
    - Documentation of the electrical system performance tests.
    - A written load analysis, which shall include the following:
      - The nameplate rating of the alternator.
      - The alternator rating under the conditions specified per:
        - Applicable NFPA 1901 or 1906 (Current Edition).
      - The minimum continuous load of each component that is specified per:
        - Applicable NFPA 1901 or 1906 (Current Edition).
        - Additional loads that, when added to the minimum continuous load, determine the total connected load.
      - Each individual intermittent load.

#### **4.6 Information to be Requested from the Proposer**

In order to get a uniform review process and to obtain the maximum degree of comparability, it is required that proposals be organized in the manner specified.

1. Title Page  
Show the RFP subject, the name of the proposer, address, telephone number, name of the contact person and the date.
2. Mandatory Criteria  
Include information showing mandatory criteria have been met, including references and other lists.
3. RFP Requirement  
Include information showing that Service and Warranty Support and NFPA 2016 Standards have or will be met. Include information showing specifications outlined in Section 4.3. Provide proof of or statements declaring the warranty, certificate and testing information as required by Sections 4.4 and 4.5. Attach copies of warranties, certificates and testing records, if available.

4. Pricing

Please provide pricing as follows:

1. Price of apparatus
2. Price of loose equipment installed and/or provided at time of delivery
3. Price of 10 years on-site preventive maintenance.

4.7 **Evaluation of Proposals**

Proposals will be evaluated to ascertain which proposer best meets the needs of the requester.

1. Reputation and experience of the dealer in the field of fire apparatus
2. Adherence to technical specifications and requirements, as outline in the RFP
3. Quality, length and cost of ongoing services and warranty support provided by vendor and manufacturer
4. Schedule of delivery – length of time between contract execution and delivery
5. Total fee including the cost of apparatus, equipment and preventive maintenance

4.8 **Additional Information and Contact**

1. The PSD will not be liable for any costs incurred in the preparation of the proposals.
2. The proposer shall furnish the PSD such additional information as the PSD may reasonably require.
3. The PSD will not be liable for any costs which were not included in the proposal unless subsequently contracted for costs.
4. The PSD will not be liable for any costs incurred by the proposer in connection with doing an on-site presentation (i.e. travel, accommodations, etc.)
5. Proposers wishing additional information or clarification of information provided herein should contact the District Manager, Angel Hughes, 291 Tarpon Boulevard, Fripp Island, SC 29920. Phone (843) 838-2400. Email: [angiehughes@fipsd.org](mailto:angiehughes@fipsd.org).