

# Moultonborough Fire ~ Rescue Department

## Specifications for Initial Attack Pumper

**Bidder  
Complies**

**Yes      No**

**Exhibit A – Specification Checklist for Item # 1**

The general specifications are for an initial attack fire apparatus build upon a 2016 Ford F550, 4 wheel drive cab and chassis with a 4-man cab, powered with a diesel engine. The apparatus shall have a stainless steel body with compartments comprised of double sided slide out tool boards with extruded aluminum mounting panels (or equivalent), slide out trays capable of handling loads up to 250 lbs. The apparatus shall have a 1,500-gallon per minute pump, a 400-gallon water tank and a Class A foam tank of not less than 15-gallons.

For each and every item you must check if your proposal meets (YES) or deviates (NO) from the specifications. If your proposal deviates from the specification you must attach an explanation, identifying the section number (i.e. I.A.; II.B. etc.) and following in order, as to how you deviate together with any explanatory catalog sheets or similar documentation.

**PROPOSED SPECIFICATIONS: Initial Attack Apparatus**

**FORD F-550 CAB & CHASSIS**

**The following Ford 2016 F550 chassis shall be supplied  
4x4 SD Crew Cab XL**

**Powertrain**

Powerstroke 6.7L V-8 OHV direct diesel injection 32 valve intercooled turbo diesel engine \* 320 amp dual alternator \* 750 amp (total) 78 amp hours (Ah) (total) battery dual batteries with run down protection \* 6-speed electronic SelectShift automatic transmission with overdrive, lock-up, driver selection \* Part-time four-wheel drive with manual transfer case shift, manual locking hubs \* Limited slip differential, driveline traction control \* 4.88 axle ratio \* Stainless steel exhaust

**Steering and Suspension**

Hydraulic power-assist re-circulating ball steering \* 4-wheel disc brakes with front and rear vented discs \* Firm ride suspension \* Mono-beam non-independent front suspension \* Front anti-roll bar \* Front coil springs \* HD front shocks \* Rigid rear axle \* Rear leaf suspension \* Rear anti-roll bar \* HD rear leaf springs \* HD rear shocks \* Front and rear 19.5" x 6.00" argent steel wheels \* LT225/70SR19.5 BSW AS front and rear tires

**Safety**

4-wheel anti-lock braking system \* Dual airbags, passenger side front-impact cancellable airbag, seat mounted driver and passenger side-impact airbags, curtain 1st and 2nd row overhead airbags \* Front height adjustable seatbelts \* SecuriLock immobilizer, panic alarm, security system

**Comfort and Convenience**

Air conditioning, underseat ducts \* AM/FM stereo, clock, seek-scan, in-dash mounted single CD, MP3 decoder, 6 speakers, fixed antenna \* Cruise control with steering wheel controls \* Power door locks with 2 stage unlock, key fob (front doors) keyless entry \* 2 12V DC power outlets, retained accessory power \* Analog instrumentation display includes tachometer, oil pressure gauge, engine temperature gauge, turbo/supercharger boost gauge, transmission fluid temp gauge, engine hour meter, exterior temp, systems monitor, trip odometer \* Warning indicators include oil pressure, engine temperature, battery, lights on, key, low fuel, door ajar, service interval, brake fluid \* Steering wheel with tilt and telescopic adjustment \* Power front windows and vented rear windows with light tint, driver 1-touch down \* Variable intermittent front windshield wipers \* Passenger side vanity mirror \* Day-night rearview mirror \* Interior lights include dome light with fade, front reading lights, illuminated entry \* Full overhead console with storage, glove box, front cup holder, instrument panel bin, driver and passenger door bins, rear door bins \* Upfitter switches

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**Exterior Features**

Side impact beams, front license plate bracket, fully galvanized steel body material \* Black fender flares \* Black side window moldings, black front windshield molding \* Black door handles \* Black grille \* Trailer harness \* Driver and passenger power remote black heated convex spotter folding manual extendable trailer outside mirrors with turn signal indicators \* Front chrome bumper with front tow hooks \* Aero-composite halogen headlamps \* Additional exterior lights include cab clearance lights, underhood light, remote activated perimeter/approach lights

**Warranty**

Basic ..... 36 month/36,000 miles  
 Powertrain ..... 60 month/60,000 miles  
 Corrosion Perforation ..... 60 month/unlimited mileage  
 Roadside Assistance ..... 60 month/60,000 miles  
 Diesel Engine ..... 60 month/100,000 miles

**Dimensions and Capacities**

Output ..... 300 hp @ 2,800 rpm  
 Torque ..... 660 lb.-ft. @ 1,600 rpm

GVWR ..... 19,500 lbs.  
 Front GAWR ..... 7,000 lbs.  
 Rear GAWR Weight ..... 14,706 lbs.  
 Towing capacity ..... 16,000 lbs.

Turning radius ..... 26.2'  
 Fuel tank ..... 40.0 gal.

**Emissions**

50 State Emissions System

**Powertrain**

Engine: 6.7L OHV Power Stroke Diesel V8  
 Dual 78 AH Batteries. Includes clean idle decal and intelligent oil life minder.  
 GVWR: 19,500 lb Payload Plus Upgrade Package  
 Includes upgraded frame, upgraded springs and low deflection/high capacity. Increases max RGAWR to 14,706.

**XL Value Package**

Radio: AM/FM Stereo w/Single CD/MP3: Includes clock, 4-speakers and auxiliary audio input jack  
 Cruise Control; XL Decor Group

**Power Equipment Group**

Accessory Delay; Power Locks; Remote Keyless Entry; Perimeter Anti-Theft Alarm; Power Front Side Windows : Includes driver side 1-touch down.; Manual Telescoping Trailer-Tow Mirrors : Includes power heated glass, heated convex spotter mirror and integrated clearance lights/turn signals.; SecuriLock Anti-Theft Ignition. Deletes passenger-side lock cylinder.

**Low Deflection Package**

Includes 2-inch spacer blocks. Recommended for rear-biased loading, such as wrecker/retriever applications.

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

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**Yes      No**

**Fleet Options**

XL Decor Group  
 Chrome Front Bumper  
 Ambulance Prep Package

**Interior Colors For: Primary w/XL (Super/Crew)**

AS Steel

**Interior and Seating**

Full cloth headliner, full vinyl/rubber floor covering, plastic/rubber gear shift knob, chrome interior accents.  
 Center armrest, cup holder and storage.

**Seating capacity of 4**

**Driver Position**

40-20-40 split-bench front seat with adjustable head restraints, center armrest with storage  
 4-way adjustable driver seat includes lumbar support  
 Vinyl faced front seats with vinyl back material

**Officer Position**

4-way adjustable passenger seat  
 Vinyl faced front seats with vinyl back material

**Crew Seating Positions**

60-40 folding rear split-bench seat with fold-up cushion, 2 fixed rear head restraints  
 Vinyl faced rear seats with carpet back material  
 The driver/officer 40-20-40 split-bench front seat center seating position is removed to allow the installation of the center console.

**CAB CONSOLE**

A heavy duty angled console shall be installed in the cab between the driver and officer seats. The console shall be finished in black powder coat for durability and low reflection. The console shall be designed with a versatile mounting rail system that accommodates commercially available panels for installation of items such as radio equipment. The design shall allow for a total of sixteen (16) inches of mounting space. This option requires the center seating position to be removed from the cab.

The console shall contain the following items as standard:

- Siren control head in a 3" Equipment Mounting Plate
- Pump Shift in a 4" custom laminate panel
- Three (3) Blank 3" Filler Plates

The following items shall be installed on the console:

- Two (2) cup holders in the forward flat section of the console.
- One (1) Kussmaul 091-219 Dual Port USB charging port adjacent to the cup holders.
- One (1) notebook holder install at the front of the console. This pocket shall have dimensions of 9" wide x 3" thick with an open top.

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

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**WHEELS**

The wheels shall be steel, factory finished in an argent color.

**STAINLESS WHEEL LINERS**

The front and rear axles shall be equipped with stainless steel wheel liners.

**TIRE PRESSURE MONITORING DEVICE**

Each tire shall be equipped with a tire pressure monitoring device. The device shall consist of a valve stem cap to with an LED tire alert to indicate tire pressure conditions. The LED will flash when the tire drops 8 psi below the factory setting.

**DRIVELINES**

Universal joints and driveshafts shall be modified for midship pump installation using SPICER 1480 series or equal. The driveshaft slip joints shall be coated to reduce sliding friction and thrust under high torque loads. Shafts shall be balanced to prevent vibration.

**GRILLE GUARD**

The front of the chassis shall have a bright finished center grille guard.

**CAB SIDE ENTRANCE BARS**

Beneath the cab doors Luverne Grip Steps for F-Series, Super Duty Crew Cab shall be installed.

**ELECTRONIC SIREN**

A Whelen electronic siren control, model 295SLSA1 shall be provided and installed in the console

**SIREN SPEAKER**

Behind the grille there shall be a Whelen model SA315 100 watt siren speaker.

**CAB PAINT**

The cab on the vehicle shall be painted Ford Red by the factory at Ford.

**BATTERY CHARGER**

A PRO MARINER / ON BOARD SOLUTIONS, 1240, shall be installed, on the ceiling of the L1 compartment.

**SHORELINE AUTO-EJECT**

A KUSSMAUL Super Auto Eject, model 091-55-20-120, with a yellow weatherproof cover shall be provided.

The auto eject shall be mounted high on the front exterior wall of the L1 compartment.

**Moultonborough Fire ~ Rescue Department  
Specifications for Initial Attack Pumper**

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**PUMP COMPARTMENT**

For durability the pump compartment shall be constructed entirely of brushed stainless steel.

**PUMP HOUSE HEATER**

A 53,500 BTU, automotive type hot water heater shall be provided and mounted in the fire pump compartment. The heater shall be connected to the truck engine coolant system and have shutoff valves in both the feeder and return lines. Heater shall include a 12 volt fan with a switch located at the pump operator's panel.

**HEAT PAN ENCLOSURE**

A removable casing constructed of aluminum, completely enclosing the underside of the pump compartment and heated by the engine exhaust shall be provided. The heat pan assembly shall include access panels that can be easily removed from their mounting locations.

**PUMP SERVICE ACCESS**

The intake panels on the sides of the pump module shall be fastened with quick release latches to provide access to the pump at the intake piping area.

The floor of the crosslays shall be removable for access to the top of the pump module.

**PUMP CONTROL PANEL**

All pump controls and gauges shall be located at the left (street) side of the apparatus and properly identified. The layout of the pump control panel shall be ergonomically efficient and systematically organized.

All push-pull valve controls shall have quarter turn locking control rods with chrome plated tee handles. Guides for the push-pull control rods shall be chrome plated castings securely mounted to the pump panel. Valve controls shall be capable of locking in any position. The control rods shall pull straight out of the panel and shall be equipped with universal joints to eliminate binding.

**PUMP PANEL IDENTIFICATION TAGS**

The identification tag for each valve shall be recessed in the face of the control handle. All discharges shall have color-coded metal identification tags, with each discharge having its own unique color scheme. Color-coding shall include the labeling of the outlet and the drain for each corresponding discharge.

**PUMP PANEL FINISH**

All stainless panels used in the construction of the pump house shall have a brushed finish.

**CONTROLS AND GAUGES**

The following shall be provided on the pump and gauge panels in a neat and orderly fashion. The gauge panel shall include the following:

**Moultonborough Fire ~ Rescue Department  
Specifications for Initial Attack Pumper**

**Bidder  
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**PRESSURE GOVERNOR, MONITORING, and MASTER PRESSURE DISPLAY**

Fire Research InControl series TGA400-A00 pressure governor and monitoring display

**PRESSURE GAUGES**

Each line pressure gauge shall be mounted immediately above the control for the corresponding valve. The individual line *pressure* gauges for the discharges shall be 2-1/2" in diameter with white dial face gauges with black lettering and markings. The gauges shall be a compound style gauge with a vacuum/pressure range of 0 - 400 psig. The gauges shall be fluid filled Freeze proof type gauges

**PUMP PANEL LIGHTING**

The pump operator's panels (left & right sides) shall be supplied with a LED light system. LED strip lights with a stainless steel hood shall be mounted across the top of the pump panel gauges and controls.

All pump module lighting shall illuminate automatically when the parking brake is engaged.

**WATER TANK INDICATOR**

Fire Research TankVision model WLA200-A00 tank indicator shall be installed. The wiring shall be weather resistant and have automotive type plug-in connectors.

**PUMP MANUFACTURER AND MODEL**

The pump shall be a Hale DSD model midship pump NO EXCEPTIONS

NO PTO DRIVEN PUMPS, NO EXCEPTIONS

**PUMP TRANSMISSION**

The pump transmission shall be assembled and tested at the pump manufacturer's factory. Pump transmission shall be of sufficient size to withstand up to 16,000 lbs. ft. of torque in road operating conditions. The pump transmission shall be designed with ample capacity for lubrication reserve and to maintain the proper operating temperature.

The pump ratio shall be selected by the apparatus manufacturer to give maximum performance with the engine and transmission.

**PUMP RATING AND TEST REQUIREMENTS**

The pump shall be of a size and design to mount on the chassis rails of commercial a chassis, and have the capacity of 1500 gallons per minute (U.S. GPM), NFPA 1901 rated performance. The pump shall deliver the percentage of rated discharge at pressures indicated below:

- 100 percent of rated capacity at 150 pounds net pressure
- 70 percent of rated capacity at 200 pounds net pressure
- 50 percent of rated capacity at 250 pounds net pressure
- 100 percent of rated capacity at 165 pounds net pressure

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

**Bidder  
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The entire pump shall be assembled and tested at the pump manufacturer's factory. The pump shall be driven by a driveline from the truck transmission. The engine shall provide sufficient horsepower and RPM to enable pump to meet and exceed its rated performance.

**PRIMING PUMP**

The priming pump shall be a positive displacement vane type, oil-less, electrically driven, and conform to standards outlined in NFPA 1901. One priming control shall both start the priming motor and open the priming valve.

**PNEUMATIC PUMP SHIFT**

The pump shift shall be air operated and shall incorporate an air double action piston to shift from road to pump and back. A manual or electric operated pump shift mechanism is not acceptable. The pump shift switch shall be mounted in the cab and identified as "AIR PUMP SHIFT" and include instructions permanently inscribed on the pump shift switch plate. The pump shift control assembly shall incorporate an indicating light system, which will notify the operator when the shift has been completed to PUMP and when the chassis transmission is in correct pumping gear.

The switch that activates the lights must be mounted on the pump transmission and positioned so that the pump shift arm activates the switch only when the shift arm has completed its full travel into PUMP position. An additional indicator light shall be provided adjacent to the throttle control at the pump operator's panel to indicate a completion of the pump shift.

**ANODE SYSTEM**

To reduce the effect of galvanic action the pump shall be equipped with two anodes. One anode is to be installed on the suction side of the system and one anode is to be installed on the discharge side of the pump.

The anode brass cap is to be drilled with a 1/8" diameter hole to provide an indicator when the anode alloy element needs to be replaced.

**SUCTION PRESSURE RELIEF VALVE**

A pressure relief valve shall be provided and installed on the suction side of the pump. The discharge side of the intake relief valve shall be plumbed to the right side below the running boards, away from but, visible to the pump operator, and shall terminate with an unthreaded pipe.

**MASTER DRAIN**

The Pump shall be equipped with a Manual Master Pump Drain for draining of the lower pump cavities, volute, water-carrying lines and accessories.

**PUMP CERTIFICATION TEST**

The apparatus pump shall be certified to the requirements of NFPA 1901 prior to delivery of the completed apparatus. The certificate shall be furnished with the apparatus on delivery.

**FIRE PUMP WARRANTY**

The Standard Hale 5 year warranty shall be provided with the pump

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

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**ELECTRONIC PUMP MANUALS**

Two sets of electronic fire pump service and operation manuals shall be provided with the completed apparatus.

**LEFT & RIGHT SIDE STEAMER INLETS**

There shall be one (1) steamer inlet furnished on the left and right side pump panels. The suction inlets shall have 6" NST thread. The suction inlets shall have removable strainers.

**LARGE DIAMETER CAP**

Two 6" chrome plated cap with long handles shall be supplied. The cap shall be capable of withstanding 500 PSI and be trimmed with the apparatus manufacturer's logo in the center of the cap.

**LEFT SIDE INTAKE**

There shall be an auxiliary gated intake located on the left side of the pump and shall contain:

A 2-1/2" quarter-turn swing-out valve with a 2-1/2" NST female swivel that extends through the pump panel. The inlet valve shall have a swing type control handle located adjacent to the valve.

One 2-1/2" chrome plated rocker lug plug with chain shall be supplied for the intake

**LEFT SIDE DISCHARGE**

A 2-1/2" discharge shall be provided. The discharge outlet shall have a 2-1/2" quarter-turn swing-out valve. The discharge shall be provided with chrome plated 30-degree discharge elbow with 2-1/2" NST male threads that extends through the pump panel. With a 2-1/2" rocker lug cap with lug vent and chain shall be furnished.

**RIGHT SIDE FORWARD DISCHARGE**

A 3" discharge shall be provided. The discharge outlet shall have a 3" quarter-turn swing-out valve. The discharge shall be provided with chrome plated 30-degree discharge elbow with 3" NST male threads that extends through the pump panel.

**RIGHT SIDE REAR DISCHARGE**

The second from the forward discharge Position on the right side of the pump panel shall contain a 4" discharge. The discharge outlet shall have a 4" quarter-turn swing-out valve. The discharge shall be provided with chrome plated straight discharge with 4" NST male threads that extends through the pump panel. Control of the outlet shall be accomplished using an electric controller. There shall be an LED indicator on the controller to indicate the valve position.

A 4" NST Female swivel thread 30-degree down to 4" Storz hard coated aluminum adapter with cap shall be provided. (Ref. TFT AH1SP-NP)

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

**Bidder  
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**PUMP CROSSLAYS**

There shall be two crosslay areas mounted on top of the pump module. They shall be arranged in a double stack design with a divider in the center. Each hose storage area shall be capable of storing 200' of 1 3/4 double jacketed hose.

The crosslays shall have a 2" quarter-turn swing-out valve with a push pull type control handle adjacent to the valve (one for each crosslay). The discharge shall be provided with a swivel head with 1-1/2" NPSH male threads that extend through the compartment floor.

**CROSSLAY HOSE GUIDES**

Brushed stainless steel hose guides shall be provided on the left and right side of each hose bed.

**CROSSLAY HOSEBED COVER**

A vinyl coated black nylon hosebed cover shall be provided over the crosslay hosebeds.

**ELKHART BALL VALVES**

All discharge ball valves shall be 1/4 turn Elkhart heavy duty swing out valve with stainless steel ball

**TANK TO PUMP**

The tank to pump piping shall be capable of delivering water to the pump at a rate of five hundred (500) gallons per minute. This flow shall be sustained while pumping to a minimum of 80% of the certified tank capacity with the apparatus on level ground.

The tank to pump line shall run from the pump to the front face of the water tank and down into the tank sump. A rubber coupling shall be included in this line to prevent damage from vibration or chassis flexing. The tank to pump line shall be 3" I.D. piping with a 3" ball valve.

**TANK REFILL**

A 2" tank refill line shall be provided using a 2" quarter-turn full flow ball valve controlled from the pump operator's panel with a manual locking handle. The tank refill shall be plumbed with high pressure flexible piping and high pressure flexible stainless steel couplings.

**DIRECT TANK FILL- LEFT REAR**

There shall be a direct tank fill located on the left (street) side of the rear compartment and shall contain:

A 2-1/2" intake with a 2-1/2" quarter-turn swing-out valve mounted direct on the rear of the apparatus body. The inlet valve shall be painted body color and have a swing type control handle located adjacent to the valve.

The inlet shall be provided with a 2-1/2" NST female swivel. A chrome plated intake plug with plug retention chain shall be installed on the inlet to the valve.

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

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**FOAM SYSTEM, DIRECT INJECTION**

Fire Research TurboFoam model TFC126-030 (or equivalent) direct injection foam proportioning system shall be installed. The control module shall be pump panel mounted,

**LOW TANK LEVEL SWITCH**

A low tank level switch shall be installed in the foam concentrate tank. The low tank level sensor shall be connected to the foam proportioning system to provide protection against dry running of the foam pump. The low tank level sensor shall be mounted on the side of the foam concentrate tank. The low tank level sensor and electrical connections shall be sealed to prevent infusion of foam concentrate into the wiring and possible short circuit of the tank level sensor.

**FOAM SYSTEM**

The foam system will operate as a Class A system.

**SINGLE TANK FOAM TANK REFILL SYSTEM**

A truck mounted 12-volt foam tank refill system shall be provided and installed on the apparatus. The refill system shall provide the ability to automatically refill the foam tank from the ground.

The refill system shall be activated by an on/off rocker switch provided on a control panel installed on the pump panel. The foam refill system will automatically shut off when the foam tank is full. The refill system quick connection shall be located beneath the pump panel running board to prevent foam from spilling onto the running board during connection operations.

**System features:**

- Weather proof on/off rocker switch with integral green power on indicator light
- Red refill PUMP ON indicator light
- 5 gpm capacity @ 8 foot lift
- Self-priming pump can run dry and re-prime itself automatically
- All corrosion resistant components
- Compatible with all Class A foam concentrates
- Quick connect inlet hose with wand
- Suction inlet strainer

**FOAM SYSTEM OUTLETS**

- The foam system shall be distributed into the following discharge outlets:
- Two (2) 1-1/2" crosslays
  - The left side 2-1/2" discharge
  - The right side 3" discharge

**HYDRAULIC DRIVE CAFS SYSTEM**

The following compressed air foam system shall be provided

**Type:**                      Vanair (or equivalent)

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

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- Capacity:** 60 to 85 CFM free air at 100 psig.  
Compressor to be capable of 90 to 150 PSIG operation
- Compressor:** Sullair 8 series Powertech design oil flooded rotary screw. The air compressors shall be completely manufactured and assembled in the USA. Air compressor inlet control valve shall be an integral design incorporated in the cast iron housing.
- Drive:** Hydraulic PTO
- Capability:** 85 CFM @ 100 psi
- Air Intake Filters:** Separate single-stage, heavy duty, dry-type air filters with dust evacuators shall be provided for air compressor.
- Air/Fluid Separator:** Separator to be externally mounted spin-on design.
- Instrument Panel:** The control panel is to include compressor air pressure gauge, hour meter, and over-temperature/over-pressure reset switch.
- Protective Circuit:** Compressor to provide provisions for automatic shutdown in case of high compressor temperature. Additional protective features provided include automatic blow down valve, receiver relief valve and minimum pressure orifice.
- Cooling System:** Compressor cooling system shall allow rated air delivery and pressure operation continuously in 125 degree Fahrenheit ambient temperatures. Compressor fluid shall be filtered by a 25 micron full flow spin-on replaceable filter canister. A fan temperature switch shall be provided to regulate compressor cooling.
- Inlet Controls:** Pneumatic inlet control valve shall be integrated into compressor system and automatically modulate output from 0 to 100% in response to air demand

The two (2) 1-1/2" crosslay discharges shall be plumbed for CAFS.

**PURCHASE INTENT**

The apparatus being purchased is expected to have an 18 to 20 year service life. Based on this requirement, the department is extremely concerned that the apparatus remains structurally sound and the outward appearance remains in a "like new" condition, with minimal maintenance and upkeep, throughout the intended service life.

Aluminum and co-polymer apparatus bodies and differing construction designs will be reviewed and considered ONLY if the builder / manufacture provides in the respondent specifications adequate proof that procedures and materials employed in the design prevent corrosion over the intended service life. Burden of proof is on the bidder and final determination of acceptability will be solely determined by the department.

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

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The entire body design shall be of a machined, bolted design to allow for ease of removal for repair or replacement, without cutting welds.

**APPARATUS BODY DESIGN AND CONSTRUCTION**

The apparatus body shall be built of stainless steel and shall be designed exclusively for Fire Service use. The overall body width shall be 95 inches wide. All metal work shall be free of sharp edges, objects or corners. No exceptions are allowed to this requirement.

The body design shall be fully tested with proven engineering and test techniques  
 The entire apparatus body shall be a precision machined, bolted construction, properly reinforced with integral flanges eliminating the need for additional structural shapes. Hose body fabrications shall be free of all internal projections which might injure personnel or fire hose.

**MODULAR BODY REQUIREMENTS**

The body shall be completely modular in design allowing transfer of body components to a new chassis in the event of an accident or wear. Body components shall be removable from chassis without cutting or bending. The modular design shall also facilitate ease of repair or replacement of major or minor body parts. The mounting of the apparatus body shall be separate and distinct from the water tank mounting and the pump module mounting.

All body panels are to be machined on a controlled laser to ensure accuracy to +/- .010". This shall greatly enhance assembly and matching of repair parts. The body compartment floors, rear walls and roof areas shall be constructed of 12-gauge stainless steel. The vertical front and rear walls are designed with 14-gauge stainless steel.

Interior stainless steel panels shall be #4B finish to eliminate the need for high maintenance painted surfaces in the compartments. All exterior stainless steel panels shall have #4B finish.

**COMPARTMENT ROOF CONSTRUCTION**

Each compartment top shall have a bolt in 12-gauge stainless roof section for supporting roof loads of up to 500 pounds per square foot without permanent roof deformation.

**COMPARTMENT INTERIOR FINISH**

For better interior visibility, to reflect light better, ease of maintenance and prevent the masking of poor welds and questionable workmanship the interior of the body compartments shall remain uncoated.

**REAR TAILBOARD**

A rear tailboard 8" deep shall be provided at the rear from NFPA approved stainless steel.

**RECEIVER HITCH**

There shall be a Class IV receiver hitch assembly as an integral part of the chassis rear frame extension that is located at the rear of the apparatus below the rear step.

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

**Bidder  
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**EXTENSION PAINT FINISH**

The rear frame extension assembly and hitch assembly is to be black powder coated prior to installation. The rear frame extension shall then be finish painted to match the chassis frame.

**COMPARTMENT DESIGN AND CONSTRUCTION**

All compartments shall be manufactured from 12-gauge stainless steel with the vertical front and rear corner walls from 14-gauge, shall be of sweep out design and shall be bolted together. Stainless recessed round head bolts and stainless aircraft style "ESNA" nuts shall be applied with proper torque rating for each fastener.

**COMPARTMENT VENTILATION**

Each compartment shall be provided with a laser cut louver to provide adequate ventilation. And shall include filters for compartments L1, L3, R1, R3 and RR1. The protective louver covering the filter shall be removable to allow for filter changing.

The filter shall be 100% virgin nylon fiber in an open web design that is USDA approved. The filter shall be chemically treated with to aid in the reduction of bacteria and fungi.

**WATER TANK CAPACITY**

The polypropylene water tank shall be rectangular shaped, and shall have a capacity of 400 US gallons.

The fill tower shall be fitted with an integral 4" ID, overflow/vent pipe running from the fill tower through the tank to allow water to overflow beneath the chassis.

The water tank manufacturer shall be either APR or UPF as selected by the apparatus builder.

**BODY MODULE CAPACITIES AND HOSEBED HEIGHT**

The total capacity of the body module exterior compartments shall not be less than 135 cubic feet.

The total capacity of the body hosebed shall be approximately 40 cubic feet.

The hose bed shall not exceed 54" from the bumper.

The body shall have an overall length not to exceed 120".

**INTERNAL FOAM TANK**

A minimum fifteen (15) gallon foam concentrate tank shall be furnished as an internal component of the booster tank. Mounted to the left side of the fill tower in the hosebed area. The foam tank shall be equipped with a pressure/vacuum vent cap. The foam tank shall be plumbed to the Class A foam system. A drain valve shall be provided at the lowest point of the foam tank. The foam tank shall drain shall directly to the surface below the apparatus without contacting other body or chassis components. The following labels shall be attached to the foam tank:

"CLASS A FOAM TANK FILL"

"WARNING: DO NOT MIX BRANDS AND TYPES OF FOAM"

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

**Bidder  
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**APPARATUS BODY HOSEBED**

The hose bed shall be constructed in such a manner that will prevent damage to fire hose. The hosebed shall comply with the current NFPA requirements. The interior of the hosebed shall be free of projections such as nuts, sharp edges or brackets that may damage hose. The hosebed and walls shall be manufactured from stainless steel. No exceptions to this requirement are allowed.

The hosebed bottom shall be fitted with removable slatted, ribbed 6" heavy-duty aluminum floorboards.

**HOSEBED COVER**

A black vinyl hosebed cover shall be provided and designed to cover the entire main hosebed area. The cover shall be installed with "stretch cord type" fasteners along each side of the hosebed. A weighted flap shall be incorporated into the rear edge of the cover in addition The hosebed cover rear flap shall have a positive locking device (s) to meet the requirements of NFPA.

**ADJUSTABLE HOSE BED DIVIDERS**

Two (2) adjustable hosebed dividers shall be provided. Each divider shall be fabricated from 1/4" thick smooth aluminum plate, 5052-H32 alloy. The rear end of each divider shall have a radius corner and shall be sanded and deburred to prevent damage to hose. There shall be two hand hold openings provided. One (1) at the rear in a vertical position and one (1) approximately 24 inches in from the rear in a horizontal position.

**SIDE COMPARTMENT DIMENSIONS**

**The compartments shall be identical in size on both the left & right sides of the apparatus**

**FORWARD OF WHEEL WELL (L-1) & (R-1)**

There shall be one rescue style, full height, and full depth compartment ahead of the rear wheels. The compartment dimensions shall provide a minimum of 25.5 cubic feet with the door closed. The door opening shall be a minimum of 26-1/2" wide x 49-1/2" tall.

**ABOVE WHEEL WELL (L-2) & (R-2)**

There shall be one high side full depth compartment centered over the rear wheels. The compartment dimensions shall provide a minimum of 22.25 cubic feet with the door closed. The door opening shall be a minimum of 42" wide x 34-1/2" tall.

**REAR OF WHEEL WELL (L-3) & (R-3)**

There shall be one rescue style, full height, and full depth compartment behind the rear wheels. The compartment dimensions shall provide a minimum of 17.0 cubic feet with the door closed. The door opening shall be 19" wide x 49-1/2" tall.

**ROLLUP DOOR CONSTRUCTION - LEFT SIDE**

All compartments shall be provided painted job color Gortite roll up doors with non-locking stainless steel lift bars and a magnetic door ajar switch system.

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

**Bidder  
Complies**

**Yes      No**

**FENDER SIDE SKIRTS**

There shall be stainless steel fender side skirts located in the area of the rear wheels. The design of the fender sides shall be a minimal length to provide maximum compartment space in the apparatus.

**FUEL FILL - SIDE BODY**

The fuel fill shall be located in the rear fender area on the left side of the apparatus body. The spring loaded fuel fill door shall have "Diesel Fuel" laser cut in the face of the door.

**BODY FENDERETTES - POLISHED**

The apparatus body fenders shall be made from polished stainless steel and shall be rolled die stamped and fully removable. The stainless steel fenders and stainless fender liners shall be fastened with stainless bolts and ESNA nuts to the outer fender panel.

**REAR AXLE MUD FLAPS**

Black, anti-sail, mud flaps shall be mounted behind the rear wheels.

**REAR COMPARTMENT DIMENSIONS (RR-1)**

There shall be one full height compartment at the rear of the body located between the left & right compartment sides. The compartment dimensions shall provide a minimum of 25.0 cubic feet with the door closed. The door opening shall be 45-1/2" x 24" tall.

The rear compartment shall be provided with a Gortite roll up door. The rear door latch shall be a non-locking stainless steel lift bar and shall be provided with a magnetic door ajar switch system.

**REAR BODY REFLECTIVE CHEVRON STRIPING**

The rear-facing vertical surfaces of the rear taillight panels and the rear body inset area beside the full height rear door, visible from the rear of the apparatus, including the rear compartment door, shall be equipped with six (6) inch wide retro-reflective striping in a chevron pattern sloping downward and away from the centerline of the vehicle at an angle of 45 degrees. Each stripe in the chevron shall be a single color alternating between red (3M #-82) and yellow (3M #-81).

The following ladders shall be supplied and mounted on the Left side of the body

One 8' Duo-Safety model 775-A, aluminum channel rail roof ladder with folding roof hooks.

One 8' Duo-Safety model 585-A aluminum folding attic ladder.

One 14' two-section Duo-Safety model 1000A solid beam, aluminum extension ladder.

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

**Bidder  
Complies**

**Yes      No**

**HARD SUCTION TRAYS**

Two stainless steel hard suction trays shall be installed on the top of the compartment on the right side of the apparatus. Each tray shall be designed to accommodate up to six (6) inch hard suction hose in a nine (9) foot length. The suction shall be held in place with straps attached to the tray.

**COMPARTMENT LIGHTING**

Two LED strip lights shall be provided for each body compartment. Each body door shall have an automatic compartment light switch. In addition to the LED strip lights there shall be two 4" round LED lights. The lights shall be mounted in the front wall of compartments L1 and R1. These lights shall illuminate the pump panel area.

**UNDERBODY LIGHTING**

Underbody ground lights shall be provided under the apparatus body as required by current NFPA 1901. Four 4" round LED ground lights shall be provided at the rear of the apparatus body, two (2) each side, to illuminate under the rear compartments. There shall also be two 4" round LED ground lights provided at the outer front corners of the apparatus body, one each side, to illuminate the area under the forward compartments and pump panel areas. All underbody ground lights shall be switched on when the parking brake is set and the apparatus is running

**FOLDING STEPS**

Folding steps shall be provided on the left rear of the apparatus body.

The folding steps shall include an integrated LED light beneath each step. This light shall illuminate when the apparatus ground lights are activated. The bottom of the step and step mounting shall include white reflective material to aide in locating the step when the vehicle ground lights are not activated.

**APPARATUS ICC MARKER LIGHTING AND REFLECTORS**

Three (3) red LED clearance lights shall be supplied, mounted in the rear of the apparatus.

ICC lighting utilized and lighting positions shall be in conformance with FMVSS 108.

There shall be a diamond shaped amber reflector mounted on each front corner of the apparatus body and a diamond shaped red reflector mounted on each rear corner of the body.

**REAR STOP/TAIL/TURN/BACKUP LIGHTS**

The rear of the apparatus shall be equipped with Whelen 600 Series tail lights. The top light in the assembly shall be a red LED stop/tail light, Whelen model 60BBTC. The middle light set shall be an amber LED lamp with a populated arrow shape, Whelen model 60A00TAR and the lower lights shall be clear LED backup lights, Whelen model 60C00WCR.

A one-piece bright finished trim shall be mounted around the rear stop/tail/turn and backup lights on each side of the apparatus.

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

**Bidder  
Complies**

**Yes      No**

**BACK-UP ALARM**

A solid state electronic backup alarm shall be installed on the rear of the apparatus and wired to the backup light circuit.

One rear license plate mounting and LED light shall be provided.

**LIGHT BAR**

A Whelen Justice, 56" light bar system shall be supplied and permanently mounted on a light bar mounting support system on the front of the body. This light bar system shall be supplied with:

- All clear lens covers
- Four corner red LIN6 LED light heads
- Two JDCR red CON3 Super-LED light heads in the outboard positions
- Two JDCC white CON3 Super-LED light heads in the second forward positions
- Two JDCR red CON3 Super-LED light heads in the third forward positions
- Two rear facing JDCA amber CON3 Super-LED light heads in the outboard positions

**FRONT WARNING LIGHTS**

Two Whelen, model LINZ6R, LED warning lights with aluminum bezels shall be mounted on the front brush guard facing forward.

**FRONT INTERSECTION LIGHTS**

Two Whelen, model LINZ6R, LED warning lights with aluminum bezels shall be mounted on each side of the front brush guard.

**BODY SIDE WARNING LIGHTS**

Two Whelen, model LINZ6R, LED warning lights with aluminum bezels shall be mounted on each side of the body in the forward wheel well area.

**REAR UPPER LEVEL WARNING LIGHTS**

Two Whelen, model LINZ6 Super-LED red warning lights with clear lens and chrome bezels shall be mounted on the upper rear of the apparatus.

Two Whelen, model LINZ6 Super-LED red warning lights with clear lens and chrome bezels shall be mounted on the upper rear sides of the apparatus.

**REAR WARNING LIGHTS**

Two Whelen warning lights, 600 Series, Super-LED light heads shall be mounted on the rear of the apparatus below the taillights at the lower outermost corners with a Whelen chrome plated flange. Both warning light lenses shall be red in color.

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

**Bidder  
Complies**

**Yes      No**

**FRONT QUARTZ LIGHTS**

Two FCA530-V15-ON LED telescoping lights shall be supplied and installed. One on each front body corner.

**ALUMINUM SHELVES - ADJUSTABLE**

Four adjustable aluminum shelves shall be provided with one each installed in the R2 & R3 and two in R1 side compartments. The shelves shall have a flange 1-1/2" deep with a minimum material thickness of .3/16". Each shelf shall be adjustable in height and held in place by four (4) extruded uprights.

**DRI-DEK MATTING - SHELVES/TRAYS**

The surface of all the aluminum shelves shall be covered with black Dri-Dek mat

**ALUMINUM TRAYS - PULL OUT**

Three heavy duty pullout trays shall be installed and shall be equipped with slides and a gas shock to hold the tray in both the in and out positions and shall be made from .3/16" aluminum with a capacity of 250 pounds. One (1) each are to be installed on the floor of the R1 and RR1 compartments.

**DRI-DEK MATTING - TRAYS**

The surface of all aluminum shelves trays shall be covered with black Dri-Dek mat

**ALUMINUM TOOL BOARDS**

The rear wall of the L2 & L3 and the rear wall of the R1 & R3 compartments shall be covered with extruded aluminum tool mounting board.

**SWING OUT TOOL BOARD**

There shall be installed in the L2 compartment one full height swing-out vertical tool board with a 150 pound capacity. The tool board shall be constructed of .25" aluminum and shall be fitted with extruded aluminum tool mounting board. A single D-Ring latch shall be provided that can easily be operated with gloved hands.

**PULL OUT VERTICAL TOOL BOARD**

One (1) vertical pull out tool board shall be installed in the L1 compartment. The height of the boards shall be designed to operate with sufficient clearance at the top of the board to allow for the operation of the roll-up door.

Each board shall be equipped with slides and a gas shock to hold the board in both the in and out positions.

The tool board shall be made from .250" aluminum.

**120 VAC RECEPTACLES**

Two (2) 120-volt AC receptacles shall be provided in the upper middle of the "R2" compartment. The receptacles shall be mounted in a weather proof box with a self-closing weatherproof cover. The electrical outlet shall be a NEMA L5-15, rated at 120-volt AC, 15-amp, duplex twist lock receptacle

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

**Bidder  
Complies**

**Yes      No**

**WHEEL CHOCKS**

One pair of heavy duty, Worden 7HY HD Yellow Handled chocks shall be supplied and mounted one on each side of the apparatus just ahead of the rear tires below the front body compartment.

**REFLECTIVE SAFETY STRIPE**

A 1" x 4" x 1" wide 3M brand Scotchlite reflective stripe shall be affixed to the perimeter of the vehicle. The stripe on each side of the apparatus shall run straight back to the body, with a reverse "Z" pattern shape on the front body door and then run straight back from there to the rear of the body. The 4" striping shall be white reflective. The 1" accent stripes shall be gold reflective.

**WATER TANK WARRANTY**

The water tank is to be free from defects in material and workmanship for the life of the apparatus.

**STRUCTURAL WARRANTY**

The manufacturer shall provide a warranty to the town of Moultonborough on the custom built apparatus body for a period of one hundred twenty (120) months. The warranty period shall commence on the date the vehicle is delivered. A detailed warranty document which shall be provided upon request.

**STAINLESS PIPING WARRANTY**

The bidder shall warrant that all stainless steel piping used in the construction of the fire apparatus water/foam plumbing systems against defects and workmanship for a period of ten years from the date of delivery.

**MISCELLANEOUS ITEMS**

**PRECONSTRUCTION / ORDER CONFERENCE**

There shall be a preconstruction conference held at the Moultonborough Public Safety Building. To ensure accuracy, performance, operability, & reliability of the apparatus, the preconstruction conference shall be conducted by the Dealer principal who shall also be The Sales & Service engineer.

To ensure a full understanding of the apparatus, this preconstruction conference will include the following practices without exception.

- Complete page by page, line by line review of the specifications and item descriptions.
- The Sales engineer & purchaser shall initial each page as being reviewed. Changes or modifications shall be noted in the left margin and initialed. A change order if required shall be generated by the sales engineer after the meeting and approved by both prior to submission to the factory.
- Drawing review
- Paint codes will be confirmed
- Hose loads shall be confirmed and documented
- Lettering & stripe locations, fonts, etc. shall be documented
- Shelves, trays, toolboard, locations shall be confirmed
- Titling information shall be confirmed and recorded to ensure the apparatus is titled correctly
- Purchaser information such as points of contact,                      person/s authorized to make decisions and changes to the apparatus (both major & minor)
- Determination of what equipment shall mounted by the vendor/purchaser

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

**Bidder  
Complies**

**Yes      No**

- Any open or remaining order or contractual documents if not previously completed shall be reviewed.

**SUPPLIED ITEMS**

**The following items shall be provided with the apparatus**

- One (1) 6-lbs. Flat head axe with Hickory handle and mounting bracket; sized to fit the L-2 compartment tool board
- One (1) Haligan tool and mounting bracket; sized to fit the L-2 compartment tool board
- One (1) T-N-T (Denver tool) TN630 tool or equivalent and mounting bracket; sized to fit the L-2 compartment tool board
- One (1) Bolt cutters and mounting bracket; sized to fit the L2 compartment tool board
- One (1) Pick-head axe and bracket; sized to fit the L2 compartment tool board
- One (1) D-Handle closet hook; sized to fit the L2 compartment tool board
- One (1) Kochek 35R, 1.5" NPSM X 1.5" NPSM Rocker Lug Double Swivel Female
- Two (2) Kochek 36R, 1.5" NPSM X 1.5" NPSM Double Rocker Lug Male
- One (1) Kochek 35R, 2 1/2" NH x 2 1/2" NH Double Swivel Rocker Lug Female
- One (1) Kochek 57L, 6" NH X 6" NH Double Swivel Long Handle Female
- One (1) Kochek S54L, 4" Storz x 6" NH Swivel Long Handle Female
- One (1) Kochek 57L, 6" NH X 4 1/2" NH Double Swivel Long Handle Female
- Two (2) 6" NH Long Handle Female and 6" NH Male Rocker Lug x 9' PVC Suction Hose
- One (1) 28" Collapsible traffic cones (set of 5); NFPA; MUTCD; FHWA
- Four (4) Streamlight Survivor LED Lights w/12-Volt fast charger
- Two (2) Elkhart B-275-A Nozzles with 187A Smooth Bore Tips
- One (1) Elkhart B-375-A Nozzle with 181A Smooth Bore Tip
- Three (3) Firehooks Unlimited Step Mount Extinguisher Holders EXT-S-312
- Two (2) SCBA Mask Bags for vehicle mounting
- Two (2) 1.5" NST Female x 1.5" NPSH Male chrome rocker lug adapters shall be supplied with the apparatus adapting crosslays to NPSH thread

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

**Bidder  
Complies**

**Yes      No**

One (1) 3.0" NSTF x 2.5" NSTM chrome rocker lug adapter and plug

One (1) Kochek FBS 60 floating strainer

There shall be included with the apparatus the following allowances that will be expended as directed by the Fire Chief.

Lettering: \$1500.00

Equipment mounting & procurement: \$10,000.00

**APPARATUS UNDERCOATING**

The apparatus shall be elevated and cleaned to remove any loose dirt or road grime and allowed to air dry as needed prior to application. Once dry, a fluid based soft pliable undercoat shall be applied by spray gun to the entire underside of the apparatus. This undercoating material shall remain soft & pliable and shall not be water soluble. The undercoat shall remain an active coating which penetrates to the base metal, where it migrates to create a formidable, protective barrier that prohibits corrosion on a molecular level. Containing no solvents, this protective undercoating will not evaporate, providing lasting lubrication and powerful protection for equipment in use, storage, and in transit. The undercoating material shall be classified as non-toxic and non-hazardous. Further the undercoat material will have a high flashpoint, and exceptional water displacement and non-conductive characteristics, and can be applied on exterior electrical harness and connections as needed to further protect and prevent corrosion.

**APPARATUS PRE-DELIVERY**

The Apparatus shall receive a predelivery check over & cleaning prior to final delivery to the department.

**FINAL DELIVERY**

The Apparatus once predelivery check & cleaning has been completed shall be delivered to the Fire Department

**TEMPORARY REGISTRATION**

A temporary registration & NH inspection sticker shall be applied to the vehicle prior to delivery so as to ensure the department can start the driving portion of predelivery without waiting for title and registration documents to arrive.

**ONSITE WARRANTY**

The apparatus manufacture will provide "on-site" warranty repair at the fire station during the first twelve (12) months of the warranty period. If the repairs cannot physically be done at the station due to the nature of the repair, the local service center for the manufacture will pick up the apparatus for the repair and return it to the fire department after repairs are completed.

**11 MONTH CHECK OVER**

There shall be supplied an eleven (11) month warranty inspection performed on the apparatus to ensure that there are no open warranty items and that the apparatus is performing as designed. This inspection shall occur at the Moultonborough public safety building.

**Moultonborough Fire ~ Rescue Department  
Specifications for Initial Attack Pumper**

**Bidder  
Complies**

**Yes      No**

**APPARATUS FAMILIARIZATION**

Fire Department personnel shall be instructed as to the use of the entire apparatus including, but not limited to, chassis, fire pump system, the CAFS system, the apparatus, and supplied equipment.

The familiarization specialist shall remain at the Fire Department for two (2) days (not less than eight (8) hours), to provide instruction to all personnel, or as instructed by Chief of the Department. All meals, motel, and travel costs shall be the responsibility of the successful bidder.

**APPARATUS FAMILIARIZATION SPECIALIST**

Apparatus familiarization shall be provided at the designated fire station by a qualified representative in two formats.

The first portion shall be a class room power point presentation with pictures and instruction that shall describe the function and operation of all features of the apparatus. This presentation shall include identification and discussion of indicators, lights, switches, gauges, controls, engine , transmission maintenance and operation, emissions operations, Pump controls as well as other optional items included in the cab, body and Pump house. This training shall be Truck specific general training films or videos will not be allowed No exceptions.

The second format will include outside pumping exercises that can include pressurized inlet operations, drafting and folding tank work, and foam system operation as needed for the options selected for the apparatus.

**Please complete the below service questionnaire and provide it with your pricing page**

**SERVICE**

Qualified Service is of the utmost importance to the fire department. Each bidder shall state the location of the nearest service full capacity service center and road distance utilizing google maps to the Moultonborough Public safety Building.

Full capacity service center location: \_\_\_\_\_

Road Miles Via google maps: \_\_\_\_\_

The service center shall be owned by the factory or dealer. Third parties with no financial or other ties to this apparatus shall be deemed acceptable service centers.

The service center shall have the ability and experience to work unrestricted with component manufactures for ease in warranty service replacement parts as or if required.

Shall have been in the fire apparatus service & repair business for a minimum of twenty years

Technicians shall have been factory trained by the OEM for completing service to this vehicle.

In order to ensure quality service, all technicians employed by the service center shall be certified EVT technicians (certifications shall be current) and the service center shall provide an ongoing EVT & ASE certification and training program with master level certification for all technicians as the goal. Proof of an ongoing EVT & ASE certifications program shall be included in the proposal by providing current certificates for

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

**Bidder  
Complies**

**Yes      No**

all technicians.

Number of technicians: \_\_\_\_\_

Number of EVT certified Technicians: \_\_\_\_\_

Certificates enclosed: \_\_\_\_\_ Yes                      No

Number of Master level EVT certified Technicians: \_\_\_\_\_

Certificates enclosed: \_\_\_\_\_ Yes                      No

Number of ASE T series Master technicians: \_\_\_\_\_

The service center shall have as a minimum:

The ability to complete major or minor repairs to the apparatus

Shall have a fully stocked parts room

Shall have a fully stocked service vehicles with on the road chassis, pump, and electrical service and repair capability

Pictures of service vehicles and service center are to be included with the bid

The service Center shall have Fire, Burglar, Freeze and power failure monitored alarm systems within the facility to notify the respective department should there be a related problem with in the building with a staffed call down list.

Shall maintain adequate insurance to protect our apparatus with aggregate limits of not less than two Million Dollars (certificates shall be provided upon request)

Shall maintain adequate workers compensation Insurance on all workers (certificates shall be provided upon request)

Shall be available to the department 24/7 and maintain an on call tech for the after-hours response

Shall have a working knowledge of the departments equipment already in-service

Shall have the ability to complete chassis, pump, pump testing, and service type work on all of our apparatus as required.

The service center shall have a the ability to complete paint work this would include

- A. using all low VOC paints & primer with documentation of proper disposal of all paint wastes as required by the EPA & DOT.
- B. A complete paint mixing station to ensure paint matches are accurate
- C. A breathing system for the technician
- D. EPA compliant Down draft Spray booth

**Moultonborough Fire ~ Rescue Department**  
**Specifications for Initial Attack Pumper**

**Bidder  
Complies**

**Yes      No**

Shall have in their place of business the means to elevate the apparatus for performing routine & major service requirements a minimum of six feet.

Shall have the ability to provide an as-built component list with Oem parts numbers as well as manufactures part number on the service vehicle as well as from the facility for ease in emergency replacement parts on the nights & weekends or in unlikely event it is not immediately available from the final stage manufacturer.

As Moultonborough is a very small community the logistics of transporting trucks for service and warranty work is difficult. In the event the apparatus needs to go to the service center does the service center offer:

Courtesy cars? \_\_\_\_\_ Yes \_\_\_\_\_ No

Drive away service? \_\_\_\_\_ Yes \_\_\_\_\_ No

The Service center Is an authorized Hale Service center \_\_\_\_\_ Yes \_\_\_\_\_ No

The Service center is an authorized Class -1 Service Center \_\_\_\_\_ Yes \_\_\_\_\_ No

The service Center is an authorized Fire Research service center \_\_\_\_\_ Yes \_\_\_\_\_ No