Specification for:

Skeeter Type 3 Flat Bed

Submitted To:

Steve Pollock,
Texas A&M Forest Service
2127 S. 1st Street Lufkin, TX 75901

Specification 1536

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Prepared by:

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Proposal

We are pleased to submit the following specifications to you for a **Skeeter Type 3 Flat Bed** per your request for quotation. The following paragraphs will describe in detail the apparatus proposed. Loose equipment not specifically requested will not be provided.

Skeeter Brush Trucks, LLC. a wholly owned company of Siddons-Martin Emergency Group, is a custom fire apparatus manufacturer specializing in Brush-Grass-Wildland fire fighting vehicles. Our 22,000 square foot manufacturing facility is located in Kirby, Texas and is operated by some of the most experienced wildland firefighting vehicle manufacturing individuals in the business. Our performance and quality minded approach to manufacturing generates some of the most reliable vehicles in the industry, thus yielding a very high return on investment.

Skeeter Brush Trucks, LLC. provides the very best sole source product and service solutions to the fire service. Skeeter Brush Trucks LLC carries $1,000,000 in liability insurance, with $3,000,000 in excess umbrella liability insurance. The opportunity to place this Skeeter Brush Truck in your department is greatly appreciated and we are certain it will fulfill your every requirement. We look forward to working for you.

Siddons-Martin Emergency Group sales and service professionals are dedicated and experienced in all aspects of the fire apparatus business. Our core business is the sales and service of fire apparatus.

Service Advantage

Siddons-Martin Emergency Group currently staffs eleven (11) service centers located throughout Texas, Louisiana, and New Mexico, and maintains a fleet of service vehicles to provide on-site service of your SKEETER Brush Truck. The Siddons-Martin Emergency Group Service Department is dedicated to the fire service and provides service and maintenance exclusively on fire apparatus. Siddons-Martin Emergency Group employs numerous EVT trained technicians and is constantly engaged in continuing factory and EVT training classes and programs in order to stay abreast of the rapidly improving technologies incorporated within today’s fire apparatus. SMEG is an authorized sales and service dealer for Pierce Mfg., and an authorized service center for Waterous, Hale, and Darley fire pumps, and an OEM distributor for all major fire equipment accessories.

Construction and Design

Skeeter Brush Trucks body and component designs are engineered. Body construction (unless otherwise noted) is done in-house, using the best in design and materials. RBM's for body frames are among the very highest in the industry. Wiring harnesses are custom manufactured in-house, and meet or exceed OEM standards. All wiring is protected, run through conduit, and distributed through one, easily accessed, sealed control box.

Chassis Operation Manual

The chassis manufacturer shall provide one (1) operational manual. This manual may be in a either a notebook type binder, with reference tabs or a compact disk (CD) with all of the printed material in an electronic format (Adobe Acrobat PDF).

Fire Pump Operational Manual

A fire pump service, instruction, and operational manual shall be supplied. This manual may be in a either a notebook type binder, with reference tabs or a compact disk (CD) with all of the printed material in an electronic format (Adobe Acrobat PDF).

Foam System Operational Manual

A foam system service, instruction, and operational manual shall be supplied. This manual may be in a either a notebook type binder, with reference tabs or a compact disk (CD) with all of the printed material in an electronic format (Adobe Acrobat PDF).

Apparatus Operational Manuals

The fire apparatus manufacturer shall provide two (2) operational manuals. These manuals may be in a either a notebook type binder, with reference tabs or a compact disk (CD) with all of the printed material in an electronic format (Adobe Acrobat PDF).

Compliance To Standards

This vehicle shall meet or exceed State and Federal Motor Vehicle Standards. Please note: the vehicle being proposed in "non-compliant" to all NFPA standards. The purchaser assumes all liability and full responsibility for this vehicle specification, and the inclusion or exclusion of any NFPA provisions or equipment on the vehicle.

100044.2 - PAINT

1. Cab Color: White
2. Cab Secondary Color: N/A
3. Description: Solid White
4. Bumper Color: Brushed Aluminum
5. Wheel Color: White
6. Body Color: Brushed Aluminum
7. Cab Steps: Black

100505.2 - CHASSIS SPECIFICATIONS

One (1) International 7400 Series, four wheel drive 4 x 4, four (4) door cab and chassis

GVWR: 35,000 lbs

Frame: steel reinforced single channel type

Wheelbase: 203”

Cab to Axle: 84”

Frame: Heat Treated Alloy Steel (120,000 PSI Yield); 10.866" x 3.622" x 0.433" (276.0mm x 92.0mm x 11.1mm); 456.0" (11582mm) Maximum OAL

Tow Hooks: front

Front Driving Axle: 14,000 lbs, oil filled front wheel seals, front shocks

Front Suspension: 14,000 lbs

Front Tires: two (2) Goodyear G751 MSA Dura Seal 484 rev/mile, load range H

Front Wheels: steel disc wheels

Mud Flaps: front mud flaps

Transfer Case: Meritor T-4210 2, 2 Spd, 10000 lb-ft Total Capacity, With Provision for PTO, With Electric Over Air Control

Rear Axle: 23,000 lbs

Rear Suspension: 23,500 lbs

Rear Tires: four (4) Goodyear G751 MSA Dura Seal 484 rev/mile, load range H

Rear Wheels: four (4) steel disc wheels

Spare Tire/Wheel: One (1) Goodyear G751 MSA Dura Seal 484 rev/mile, load range H

Gear Ratio: 4.89, top speed 74 mph

Air Brake System: equipped with air-operated brakes and an anti-lock braking system (ABS), air dryer, manual air tank drains

Engine: MaxxForce 9 EPA 10, 330 HP @ 2000 RPM, 950 lb-ft Torque @ 1200 RPM, 2200 RPM

Engine Exhaust Brake: exhaust brake

Cooling System: -30 degrees Fahrenheit

Exhaust System: horizontally mounted right side

Fuel Tank: left side step tank 70-gallon

Fuel Filter: fuel/water with dash mounted alarm, indicator light

Transmission: Allison 3000EVS_P 4th Generation Controls; Close Ratio, 5-Speed; With Overdrive, Includes

Oil Level Sensor, With Provision for PTO, Less Retarder, Max. GVW N/A

Steering: power

Batteries: International Maintenance-Free (3) 12-Volt 2775CCA Total

Alternator: Leece-Neville LBP2203H Brush Type, 12 Volt 160 Amp. Capacity, Pad Mount

Cab: Four (4) door, with tilting fiberglass front hood assembly

Cab accessories and features shall include:

1) Factory tinted glass in all windows
2) Amber DOT edge of roof clearance/marker lights
3) Gray interior trim with vinyl upholstery
4) Grey vinyl floor mat
5) Dual sun visors
6) Electric windshield washer
7) Electric windshield wipers with two speed switch with wash and intermittent
8) Exterior handrails at each cab door
9) High output heater and defroster system with electronic controls
10) Dual electric horns
11) Halogen headlights (IN FRONT BUMPER due to DOT height requirements)
12) Front turn signal lamps

Cab Paint: International White

Climate Control: heater, defroster, and air conditioning

Cab Mirrors: two (2) extended style mirrors, with convex mirrors

Cab Instruments: standard metric

Driver's seat: National 2000 NFPA Compliant, Air Suspension, High Back With Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjust, -3 to +14 Degree Back Angle Adjust

Front passenger's seat: Gra-Mag Non Suspension, High Back, Fixed Back, Integral Headrest, Vinyl

Rear passenger seat: International BENCH; Full Width; Vinyl, With Fixed Back and Two IntegralOutboard Headrests

Front Seat Belts: 3-Point, Lap and Shoulder Belt Type

Rear Seat Belts: (3) Two 3-Point Shoulder Belts for Driver and Outer Passenger and One 2-Point Lap Belt for Center Passenger

Printed Manuals: one (1) printed chassis operation manual

100445.1 - BUMPER PLATFORM

The 12" front to rear horizontal front bumper platform and right/left end panels shall be constructed of aluminum tread plate, compliant to applicable NFPA standards. The ends of the extension shall be enclosed to height of the bumper and reinforced to support the area.

100447.1 - BUMPER HOSE COMPARTMENT - CENTER

The front center of the bumper extension shall be equipped with aluminum hose storage compartment with a capacity of 100 feet of 1-3/4" hose and nozzle. The floor of the compartment shall have plastic grating and drain holes installed. The

compartment shall be equipped with a nylon safety strap and latch to comply with applicable NFPA standards.

100052.3 - SPARE TIRE

A factory tire and wheel shall be supplied.

100055.1 - MOUNTING SPARE TIRE AND WHEEL

The spare tire and wheel shall be mounted on top of the water tank. An aluminum plate shall be installed with a mounting assembly for the wheel and tire.

100516.1 - CUSTOM FABRICATED BUMPER AND GRILL GUARD

The front of the vehicle shall be equipped with a custom fabricated, severe service, 1/4" aluminum channel shaped bumper assembly. It shall be bolted in place to the front frame extensions, and angled back at corners to width of fenders. It shall be 99" wide, 14.5" high, and 3.75" deep. The side panels shall be 34" from front of bumper to fender.

The unit shall be brushed aluminum.

The bumper shall be equipped with a custom fabricated, severe service, tubular aluminum grill guard, welded in place. It shall be fabricated out of 2" sch 40 radius bent aluminum tubing. It shall extend 34" above the top of the bumper assembly, and be 99" wide. There shall be wing guards to protect the headlights, which shall be 24" above the bumper. A horizontal brace shall run parallel to the bumper.

The unit shall be brushed aluminum.

100058.1 - REAR MUD FLAPS

The chassis shall be supplied with mud flaps with the manufacturer's logo. The mud flaps shall be installed behind the rear wheels.

100064.1 - FRONT BUMPER SKID PLATE

A .3125” skid plate will be installed from the bumper area extending below the bumper extension and chassis radiator area.

100065.1 - TRANSFER CASE SKID PLATE, LONG

A removable heavy .250" aluminum skid plate assembly shall be installed to protect the oil pan and transfer case.

100086.1 - CUSTOM FABRICATED CONSOLE AND SWITCH PANEL

A custom fabricated poly (plastic) electrical console and enclosure shall be located between the driver's and passenger's seats. It shall house the siren, switches, cup holder, and auxiliary equipment.

100082.1 - WINCH -- FRONT MOUNTED

A Warn Winch Company Model #16.5ti PN68801 16,500 pound capacity 12-volt electric powered winch shall be shall be permanently installed at the front center bumper extension area . The unit shall include the following:

a) 16,500 lb rated load
b) Thermo-metric indicator for motor temperature monitoring
c) Cable roller guide assembly
d) 90 feet of 7/16" diameter galvanized cable and hawse fairlead & safety hook assembly shall be supplied.
e) Winch speed shall be constant with forward and reverse modes controlled with a push button device at the end of a 12 feet (12') minimum control cable which connects to the winch through a weatherproof receptacle.

100178.1 - REAR RECEIVER

The rear of the chassis shall be equipped with one (1) square steel tube receiver assembly for high or low angle rescue, trailer use, and winch applications. It shall be the same size as a Class III trailer hitch and shall be attached to the chassis frame assembly. The receiver shall be rated at approximately 10,000 lbs.

100515.1 - FIRE PUMP SPECIFICATIONS

A Hale HPX300-DK-0 fire pump with radiator cooled Kubota diesel engine shall be installed on the apparatus to meet the following performance criteria:

190 GPM @ 250 PSI

300 GPM @ 165 PSI
400 GPM @ 80 PSI

The pump shall include the following components:

1. Self-Adjusting Mechanical Pump Seal
2. Bronze Alloy Impeller with Double seal ring design to eliminate end thrust
3. Renewable double-labyrinth type, solid Bronze Impeller Seal Ring
4. Precision-ground Stainless Steel Pump Shaft splined for broached impeller hubs. The pump shall have hard ceramic coating under the packing glands to reduce friction
5. Deep Groove Radial-Type Ball Bearings for pump shaft
6. High-strength aluminum alloy pump casing with bronze fittings
7. Aluminum alloy transmission cast with precision spur cut gears from heat-treated alloy steel
8. 35 HP Kubota diesel powered engine
9. 12-volt electric start with rope recoil backup
10. Alternator

100423.1 - THERMAL RELIEF UNIT

There shall be a Trident model brass thermal relief valve installed in the manifold allowing auto dump at 143° water temperature. The thermal relief valve shall auto close at 118° water tempter. There shall be a hose directing water under the body, but in a location visible by the pump operator.

100272.1 - STAINLESS STEEL PLUMBING SYSTEM

The auxiliary fire pump plumbing system shall be built completely of stainless steel piping, fittings, and connections. Victaulic couplings shall be installed to permit flexing of the plumbing system and allow for quick removal of piping or valves for service. Tank connections and remote plumbing shall use high-pressure flexible piping. Flexible hose couplings shall be threaded stainless steel or Victaulic connections.

100285.1 - VALVES

All valves used in the plumbing installation shall be stainless steel quarter turn full flow type.

The plumbing installation shall include quarter turn ball valves with local "on-valve" handle control, with custom embossed labeling for each valve.

100483.1 - HOSE THREADS

The hose threads shall be National Hose Standard (NH) on all base threads on the apparatus intakes and discharges, unless otherwise specified.

100263.1 - EXHAUST SYSTEM

The auxiliary fire pump and engine assembly shall have a muffler and vertical exhaust pipe. The exhaust pipe shall be directed upward and away from the pump operator. An additional guard or wrapping around the exhaust pipe shall be installed where the pipe is exposed to touch by an operator.

100307.1 - PRIMER ASSEMBLY

There shall be an electric oil less primer assembly installed for the auxiliary fire pump. The electric primer assembly shall be capable of taking suction and discharging water with a lift of 10 feet in not more than 30 seconds with the pump dry, through 20 feet of suction hose of appropriate size. A vacuum test with a capped suction of at least 20' long shall develop 22" of vacuum and hold a vacuum with a drop not in excess of 10" in 5 minutes. Priming pump shall be activated by a mechanical/electric valve with a single pull control located at the pump operator's panel area.

100266.1 - FIRE PUMP ENCLOSURE

The fire pump house shall be installed around the pump and engine. The enclosure shall be fabricated of .125" aluminum tread plate. Hinged doors and access panels shall be installed for servicing of the engine.

A Hale engine and pump control panel shall be provided at the rear of the vehicle. The following shall be located at the operator's position:

2.5" discharge pressure gauge
tachometer
start/stop control

throttle control
low oil pressure warning light

The pump control panel shall be mounted at the right rear corner of the body.

100265.1 - PUMP PANEL ENCLOSURE

A pump panel enclosure shall be installed. The enclosure shall be fabricated of .125" aluminum with a DA finish, bolted in place with a pump instrument panel installed.

A Hale engine and pump control panel shall be provided at the rear of the vehicle. The following shall be located at the operator's position:

2.5" discharge pressure gauge
tachometer
start/stop control
throttle control
low oil pressure warning light

The pump control panel shall be mounted at the right rear corner of the body.

100420.1 - SECONDARY PUMP CONTROLS

There shall be an on/off switch and push to start switch located in the cab mounted pump panel.

100534.1 - LOW WATER PRESSURE CUT-OFF

There shall be a low water pressure cut-off switch that will shut off the pump engine when pump pressure is lost. There shall be a manual override switch to bypass the cut-off.

100267.1 - FUEL SYSTEM FROM CHASSIS FUEL TANK

The fuel system for the auxiliary fire pump shall be plumbed from the chassis fuel system. There shall be a separate fuel pickup tube mounted in the chassis fuel tank specifically for a separate engine driven pump assembly.

There shall be an electric fuel pump with spin on fuel filter and flexible fuel hose furnished between the chassis fuel tank and the auxiliary pump.

100257.1 - ELECTRIC START WIRING TO CHASSIS

The 12 volt positive and negative cables shall be provided from the chassis battery to the fire pump area (not through the master switch). The cables shall have a circuit breaker installed at the chassis battery.

100255.1 - AUXILIARY FIRE PUMP MOUNTING PROVISIONS

The auxiliary fire pump shall be installed at the right side rear of the body. The sub-structure shall have welded in mounting sub-plates between the structural members. The pump shall be mounted on a di-electric surface under pump and bolts through the sub-plates.

100254.1 - PUMP ENGINE OIL DRAIN

The fire pump engine shall have an oil drain line installed. It shall allow for easy oil draining.

100253.1 - FIRE PUMP MASTER DRAIN

The fire pump shall have a master drain at the bottom of the water pump housing.

100252.1 - BYPASS FIRE PUMP COOLER

The fire pump shall be equipped with 3/8" cooling line from the pump to the water tank. This re-circulation line shall be controlled by a pump panel control valve with nameplate label noting it as the "fire pump bypass cooler".

100273.1 - FRONT BUMPER MANIFOLD SUPPLY

There shall be an 1.5" stainless steel valve, with a flexible supply hose installed to feed the front discharge manifold.

100270.1 - 2-1/2" GATED INTAKE -- REAR

One (1) 2-1/2" gated suction intake shall be installed on rear area to supply the fire pump from an external water supply.

The valve shall be a controlled with a direct quarter-turn ball valve control handle and shall have 2-1/2" NH female thread with removable screen with plug. The color coded label shall be installed near the control handle.

100283.1 - TANK TO PUMP LINE INSTALLATION

The 2.5" tank to pump line shall be installed with a flexible hump hose connection and stainless steel clamps to the water tank. The valve shall be controlled with a manually operated handle directly on the valve.

100281.1 - WATER TANK FILL AND COOLING LINE

One (1) 1" fire pump to water tank refill and bypass cooler line shall be provided. The pump to tank valve shall be a 1" full flow quarter turn ball valve with local control handle. A 1" flex hose shall be installed to the water tank. A nameplate label shall be installed next to the valve.

100278.1 - 3/4” GARDEN HOSE DISCHARGE -- REAR

One (1) .75" garden hose discharge shall be installed on the rear pump area, controlled by a quarter turn ball valve with local control handle. The discharge shall have a .75" male garden hose threads and cap and nameplate label adjacent the valve control handle.

100274.1 - 2-1/2” DISCHARGE -- REAR

One (1) 2-1/2" discharge shall be installed at the rear pump area, controlled by a quarter turn ball valve. The discharge shall have 2-1/2" NH male hose threads and nameplate label adjacent the valve control handle. The discharge shall be equipped with 2-1/2" female x 1-1/2" chrome plated brass reducer, 1-1/2" chrome cap and chain.

100277.1 - 1-1/2” PRE-CONNECT DISCHARGE -- REAR HOSEBED

One (1) 1-1/2" pre-connect discharge shall be installed on the rear hosebed, controlled by a quarter turn ball valve with direct local control handle in pump area. The discharge shall have 1-1/2" NH male hose threads and nameplate label adjacent the valve control handle.

The valve shall be on the manifold, with a feed line to the rear of the tray.

100522.1 - 1.5" FRONT BUMPER DISCHARGE - RIGHT SIDE

One (1) 1.5" discharge shall be piped to the front bumper area, located on the right side area. The discharge shall be piped with flexible 1.5" hose. The outlet shall terminate with stainless steel or chrome plated brass chicksan swivel outlet with 1.5" NH male threads.

A 1.5" manually operated Akron T handle ball valve shall be installed at the bumper area.

An additional front bumper 1.5" 1/4 turn discharge valve shall be installed on the rear manifold.

There shall be a hose tray installed above the bumper extension skirt that will hold 100' of 1.5" hose.

100441.1 - FRONT OF BODY DISCHARGE (THROUGH THE TANK)

A 1.5" discharge shall be piped from the rear pump area to the front on the body.

100290.3 - HOSE REELS

Two (2) Hannay aluminum hose reels shall be installed. The reels shall have leak proof ball bearing swing joints, adjustable friction brakes, electric 12 volt rewind and manual crank rewind provisions. The reels shall be plumbed with wire reinforced, high-pressure hose coupled with brass fittings. The reels shall be designed to hold 125% of the specified hose capacity.

The reels shall be installed under the rear cab doors, facing outward, one (1) each side. Control valves for the reels shall be located at the reels.

The reels shall have aluminum diamond plate covers, and have the factory cab steps installed.

100292.2 - REEL CAPACITY

The hose reels shall have a capacity of 150 feet of hose.

100295.2 - HOSE REEL DISCHARGES

One (1) 1" discharges shall be piped from the fire pump to the hose reel with flexible high pressure hose. The quarter turn ball valves shall be controlled on pump panel. A nameplate label shall be provided near the valve control handle.

100302.2 - NOZZLE MOUNT
Each 1" flexible hose discharge shall have a nozzle bracket installed to hold the nozzle in place.

100297.2 - HOSE REEL HOSE
Two (2) 150' foot lengths of Kocheck KBH of 1" water hose shall be installed on the hose reel. The hose shall be equipped with NH threaded couplings and have a 300 PSI working pressure.

100259.1 - CLASS A FOAM SYSTEM
A Scotty Model #4171 Class A through-the-pump foam system shall be installed to supply all discharges. The unit shall be mounted between the discharge and suction side of a pump. The unit shall be adjustable, permitting various foam ratio percentages to be educted depending on the nozzles in use. Foam selection percentages between .3 and 1% shall be available. The foam system has been designed for simplicity of operation and maintenance. A flush system will be installed.

100226.1 - WATER TANK GAUGES
A Class1 "Intelli-Tank" water tank level gauge shall be installed on pump panel. The tank level gauge shall indicated the liquid level on an easy to read LED display and show increments of 1/8 of a tank. A pressure transducer mounted on the outside of the tank in an easily accessible area.

CAB MOUNTED -
One (1) Class1 112124 “Intelli-Tank” mini water tank level gauge shall be installed in the cab or center console (if so equipped). The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/8 of a tank. A pressure transducer mounted on the outside of the tank in an easily accessible area.

100380.1 - WATER TANK SPECIFICATIONS
The water tank shall have a capacity of 750 gallons.

100205.1 - NFPA COMPLIANCE
The water tank construction shall conform to applicable NFPA standards.

100206.1 - WATER TANK SIGHT GAUGE
The water tank shall be equipped with clear water level sight gauge in the rear wall of the tank.

100207.1 - FILL TOWER LOCATION
The tank fill tower shall be located in the left rear corner of the water tank.

100210.1 - VENT AND OVERFLOW
The fill tower shall incorporate a vent and overflow system shall be designed into the water tank. The system shall include a 4" diameter pipe that functions both as an air vent while emptying the tank and as an overflow when filling the tank. The overflow shall discharge excess water below the frame rails of the vehicle.

100213.1 - TANK TO PUMP CONNECTION
A 3" pipe shall be provided on the water tank for connection of the tank to the suction side of the pump with a flexible hump hose assembly. The tank suction valve and hump hose required to complete this connection shall be supplied by the final assembler.

100214.1 - PUMP TO TANK CONNECTION
A 1" connection shall be provided on the water tank for connection of the discharge side of the pump to the tank for filling purposes. The valves and hose required to complete this connection shall be supplied by the final assembler.

100216.1 - WATER TANK DRAIN PROVISIONS
A 1.5" plugged drain provisions shall be installed in the bottom of the water tank, sump, or plumbing for water tank draining and flush-out of debris.

100528.1 - QUICK DUMP VALVE
A Newton Kwik-Dump 10" valve shall be supplied. The valve shall be located on the drivers side of the tank, rear of the vehicle at a height that allows for proper operation. All components exposed to the contents of the tank shall be constructed from stainless steel materials. The valve shall be manually operated through the use of a side mounted lever used to open

the plunger type back plate. The valve shall have an extension chute.

100223.4 - PERIMETER WALL AROUND TANK

An open storage rack will be installed on top of tank to store spare tire and assorted purchaser supplied tools. The sides of the rack will be expanded metal. The unit shall be 10” high and full width and length of tank as space permits.

A poly divider shall be installed running from the passenger’s side of the tank to the driver’s side of the tank that dividing the storage area into two (2) separate areas. The divider shall be directly to the rear of the spare tire mounting area. An additional divider shall be installed, parallel to the front divider, adjacent to the fill towers.

There shall be an aluminum storage compartment on top of the water tank. It shall fit into the space created by the dividers. The compartment shall be divided into two sections, and be hinged in the middle (parallel to the chassis frame). There shall be a locking latch on each side.

100228.1 - FOAM TANK SPECIFICATIONS

The Class A foam tank shall have a capacity of 20 gallons.

100232.1 - FOAM TANK AND VENTING PROVISIONS

The foam concentrate tank shall be provided with a fill pipe having a volume of not less than 2 percent of the total tank volume. The filler opening shall be capped with a sealed air-tight threaded cover. The fill opening shall be designed to incorporate a removable screen and shall be located so that foam concentrate from a five (5) gallon container can be dumped into the tank.

The foam tank filler shall be equipped with a pressure/vacuum vent that enables the tank to compensate for changes in pressure or vacuum when filling or withdrawing foam concentrate from the tank. The pressure/vacuum vent shall not allow atmospheric air to enter the foam tank except during operation or to compensate for thermal fluctuations. The vent shall be protected to prevent foam concentrate from escaping or directly contacting the vent at any time. The vent shall be of sufficient size to prevent tank damage during filling or foam withdrawal.

A color coded label or visible permanent marking that reads "CLASS A -- FOAM TANK FILL" shall be placed at or near the foam concentrate tank fill opening. An additional label shall be placed at or near any foam concentrate tank fill opening stating the type of foam concentrate the system is designed to use.

Any restrictions on the types of foam concentrate that can be used with the system shall also be stated, along with a warning message that states "WARNING: DO NOT MIX BRANDS AND TYPES OF FOAM."

100233.1 - FOAM SYSTEM PIPING

A 3/4" fitting shall be provided on the foam tank for connection of the foam tank to the suction side of the foam system.

100235.1 - FOAM TANK DRAIN AND VALVE PROVISIONS

A 3/4" diameter connection, piping, and valve shall be installed for the foam tank for draining purposes.

100239.1 - FOAM TANK GAUGES

One (1) Class 1 foam tank level gauge shall be installed on pump panel. The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/8 of a tank. A pressure transducer mounted on the outside of the tank in an easily accessible area.

One (1) Class1 112124 “Intelli-Tank” mini foam tank level gauge shall be installed in the cab or center console (if so equipped). The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/8 of a tank. A pressure transducer mounted on the outside of the tank in an easily accessible area.

100554.1 - CUSTOM RESCUE SIDE ALUMINUM BODY

The body will be a custom fabricated severe service rescue-side type, constructed of all aluminum. The body shall be 138” long by 100” wide, designed for a 84" cab to axle dimension. The body shall be specifically designed and engineered for off-road wildland firefighting.

FLAT-BED SUB-STRUCTURE

The body shall have 8” x 1.75” structural aluminum channel main frame rails. The body frame rails shall be isolated from the truck frame by .500” industrial isolators.

FLAT-BED CROSS-MEMBER SUB-STRUCTURE
The cross-members shall be 3” x 2 5/16"” structural aluminum I beams with cross-members on 12” centers.

FLAT-BED MOUNTING
The body shall be bolted to the chassis frame rails at the rear end of the frame. There shall be brackets installed at the middle of the body frame to prevent side to side movement. The body shall be spring mounted at the front of the body frame. The flexible mounting system shall allow for body/chassis flexing during extreme off road conditions.

SQUARE CORNERS -- FLAT-BED
The front corners of the flat-bed body shall be square.

HEADACHE RACK
The front of the body shall have a 2” formed aluminum tube headache rack. The rack shall extend the full width of the body and be attached to the front body corners. The assembly shall extend above the chassis cab and have mounting platform for installation of the light bar and two work lights. Wiring for the lights will be placed inside the tubing for protection. The headache rack shall have four (4) vertical 2" tubes for extra strength.

FUEL FILLER
The fuel filler tube and cap shall be installed at the left hand side, rear of the body.

FENDER PANELS
The lower portion of the flat-bed body shall have fender panels over and aft of the rear wheel panel area. The panels shall be constructed of polished aluminum tread plate. The wheel well openings will be cut out to conform to the wheels.

REAR BODY PANEL
A vertical body panel shall be installed at the rear of the body constructed of .190" smooth aluminum. The panel shall house the running lights, taillights, back-up lights, and emergency lights. The body panel shall be angled to allow for a 30 degree angle of departure.

PROTECTIVE RAILS
The upper body area shall be protected with radius corner 1” diameter aluminum tube railing assembly installed around the top of the body. The corners of the body shall have vertical risers space in critical areas. The railings shall act a protection to the upper body structures when off road in heavy brush conditions. The rear upper body corner rails shall house the upper emergency lights and work lights.

SIDE BODY COMPARTMENTS, FRONT BODY -- RIGHT AND LEFT SIDES
Two (2) body equipment storage compartments shall be installed at the front of the body just behind the headache rack, one each side of the apparatus. The dimensions shall be approximately: 52" wide, 56" high, and 18" deep. The compartments shall be constructed of .125" aluminum tread plate on all exterior surfaces. Each compartment shall be equipped with a vertically hinged door with a single latch installed. The doors shall be equipped with gas operated door opening assistant cylinders.

Each vertical compartment shall have one (1) fixed shelf.

The compartment floors shall be lined with turtle tile.

100139.2 - SIDE BODY COMPARTMENTS, ROLL-UP DOOR UPGRADE

The two (2) vertical compartment doors shall be upgraded to Roll-Up type doors. The doors shall be built to fit dimensions of the vertical compartments.

100145.1 - DRIVERS SIDE UPPER BODY COMPARTMENT

A body equipment storage compartment shall be installed on the flatbed surface, left side of the apparatus. The dimensions shall be approximately 48" wide, 24" high, and 18" deep. The compartment shall be constructed of .125" aluminum tread plate on all exterior surfaces. The compartment shall be equipped with a roll-up door with latch installed. Turtle tile shall be installed on the floor.

100149.1 - PASSENGERS SIDE UPPER BODY COMPRTMENT

A body equipment storage compartment shall be installed on the flatbed surface, right side of the apparatus. The dimensions shall be approximately 48" wide, 24" high, and 18" deep. The compartment shall be constructed of .125" aluminum tread plate on all exterior surfaces. The compartment shall be equipped with a roll-up door with latch installed. Turtle tile shall be installed on the floor.

100544.3 - CUSTOM COMPARTMENT SHELVING

A horizontal shelf with 1" lip shall be installed in each of the front vertical and center body compartments. They shall be installed on adjustable mounts.

COMPARTMENT DIVIDER, VERTICAL
There shall be a vertical divider in the passenger's side rearward (R1) compartment. It shall be installed under the horizontal shelf.

100555.1 - UNDER BODY, HOSE REEL COMPARTMENTS -- RIGHT AND LEFT SIDE

Two (2) under body compartments will be installed at the front of the body, one (1) each side. The compartments will be large enough to house the 200' hose reels. The compartments will be open face. The dimensions shall be approximately: 36" wide x 27" high x 24" deep. The compartments shall be constructed of .125" aluminum tread plate on all exterior surfaces.

100585.3 - UNDER BODY COMPARTMENTS -- REAR BODY, RT AND LT SIDES

Two (2) under flat bed equipment storage compartment shall be installed under the flatbed surface, on the passenger's and driver's side of the apparatus, behind the rear axle. The dimensions shall be approximately: 20" wide, 16" high, and 24" deep. The compartment shall be constructed of .125" aluminum tread plate on all exterior surface. The compartments shall be equipped with a vertically hinged door with latch installed. The compartment shall have turtle tile installed.

There shall be a vertical divider in the driver's side compartment to hold the wheel chocks.

100159.1 - UNDER BODY COMPARTMENT -- REAR CENTER

An under body equipment storage compartment shall be installed under the flatbed surface located in the center rear of the apparatus. The dimensions shall be approximately: 33" wide, 5" high, and 96" front to rear. The compartment shall be for by the vertical body beams, upper floor surface, and an aluminum lower floor area. The compartment shall be equipped with a hinged drop down door with dual latches installed.

100166.1 - REAR SLIDE-OUT TRAY

The rear center compartment shall be equipped with an .190" aluminum slide out tray on UHMW plastic slide pads. The tray shall be full width and full length of the compartment interior.

100160.1 - INTERIOR COMPARTMENT VENTILATION LOUVERS

The interior of the specified compartments shall be provided with louvered ventilation units.

100161.1 - COMPARTMENT DOOR KEY LOCKS

The hinged compartment doors shall be equipped with key type door locks.

100540.1 - CAB LIGHTING, LED

Two (2) red LED ceiling cab lights shall be installed. One (1) shall be installed in the front cab area, and one (1) shall be installed in the rear cab area. There shall be a front switch, located on the front of the console, and a rear switch located on the rear of the center console.

100162.1 - COMPARTMENT LIGHTING, LED

Two (2) compartments shall be each be equipped with one (1) Grote 61E41, 4" diameter rubber mounted LED light.

100163.1 - AUTOMATIC COMPARTMENT DOOR LIGHT SWITCHES

Each exterior compartment light shall be automatically controlled by a door activated switch.

100164.1 - DOOR OPEN LIGHT

A "door open" or equipment operation warning light shall be installed on cab dash. The light shall be flashing LED light with a red lens.

100542.1 - CEILING FANS

Two (2) 12 volt electric cab fans shall be installed in the rear of the cab, one (1) each side.

100538.1 - HOSE TRAY -- LEFT SIDE

A hose storage tray shall be installed over the left side equipment compartment, on the right side of the apparatus. The

dimensions shall be approximately: 16" wide, 8" high, and 96" long. The compartment shall be constructed of .125" aluminum tread plate on all exterior surfaces. The assembly shall be equipped with a hinged lift up aluminum tread plate door on top, enclosed front panel, and open rear area. The hose tray shall be equipped with Turtle Tile floor covering.

The compartment will have a handle to assist in opening and lockable.

100539.1 - TOOL STORAGE TRAY/COMPARTMENT -- RIGHT SIDE

A tool storage compartment shall be installed over the right side equipment compartment, on the left side of the apparatus. The dimensions shall be approximately: 16" wide, 8" high, and 96" long. The compartment shall be constructed of .125" aluminum tread plate and all exterior surfaces. The compartment shall be equipped with a hinged lift up aluminum tread plate door and a latch installed. The compartment shall be equipped with Turtle Tile floor covering.

The compartment will have a handle to assist in the opening and lockable.

The box can be used for storage of shovels, rakes, brooms, etc.

100180.1 - REAR PULL OUT STEP

There shall be a rear "Pull-Out-Fold-Down" step located at the rear of the apparatus, step shall be stowed in a pocket under the rear of the unit. Storage pocket shall be fabricated to allow easy access to deploying for operation.

100181.1 - FOLDING STEP

A Signature 4 lighted 8" square folding step of die cast zinc shall be installed. The step shall comply with NFPA non-slip standards and shall be installed on the rear left side of the body. The step shall be equipped with lighting to NFPA standard.

100325.1 - ELECTRICAL ENCLOSURE

An electric wiring enclosure for the 12 volt wiring shall be installed in the forward wall of the right side compartment with a removable panel. The dimensions of the enclosures shall be approximately 20" high, 18" wide, and 4" deep.

100326.1 - 12 VOLT ELECTRICAL SPECIFICATIONS

The following describes the low voltage electrical system on the apparatus including all panels, electrical components, switches and relays, wiring harnesses and other electrical components. The apparatus manufacturer shall conform to the latest Federal DOT standards, current automotive electrical system standards and the applicable requirements of the NFPA.

Wiring shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for which the circuit is protected. Voltage drops shall not exceed 10 percent in all wiring from the power source to the using device. The wiring and wiring harness and insulation shall be in conformance to applicable SAE and NFPA standards. The wiring harness shall conform to SAE J-1128 with GXL temperature properties. Exposed wiring shall be run in a loom with a minimum 289 degree Fahrenheit rating. Wiring looms shall be properly supported and attached to body members. Electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction.

All wiring connections and terminations shall provide positive mechanical and electrical connections and be installed in accordance with the device manufacturer's instructions. When wiring passes through metal panels, electrical connections shall be with mechanical type fasteners and rubber grommets

Wiring between cab and body shall be split using Deutsche type connectors or enclosed in a terminal junction panel allowing body removal with minimal impact on the apparatus electrical system. Connections shall be crimp-type with heat shrink tubing with insulated shanks to resist moisture and foreign debris such as grease and road grime. Weather resistant connectors shall be provided throughout the system.

Electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. When required, automatic reset breakers and relays shall be housed in the main body junction panel.

There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless enclosed in an electrical junction box or covered with a removable electrical panel. Wiring shall be secured in place and protected against heat, liquid contaminants and damage.

Low voltage overcurrent protective devices shall be provided for the electrical circuits. The devices shall be accessible and located in required terminal connection locations or weather resistant enclosures. Overcurrent protection devices shall be automatic reset type suitable for electrical equipment and meet SAE standards. All electrical equipment, switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is

protected. Electro-magnetic interference suppression shall be provided in the system as required in applicable SAE standards.

The electrical system shall include the following:

Electrical terminals in weather exposed areas shall have a non-conductive grease or spray applied. All terminal plugs located outside of the cab or body shall be treated with a corrosion preventative compound.
All electrical wiring shall be placed in a protective loom or be harnessed.
Exposed connections shall be protected by heat shrink material and sealed connectors.
Large fender washers shall be used when fastening equipment to the underside of the cab roof and all holes made in the roof shall be caulked with silicone.
Electrical components installed in exposed areas shall be mounted in a manner that will not allow moisture to accumulate inside.
A coil of wire must be provided behind an electrical appliance to allow them to be pulled away from mounting area for inspection and service work.
All lights in a weather exposed area that have their sockets shall have corrosion preventative compound added to the socket terminal area.
Warning lights shall be switched in the chassis cab with labeled rocker type switches located in an accessible location. Individual rocker switches shall be provided only for warning lights provided exceeding the minimum level of warning lights in either the stationary or moving modes. All electrical equipment switches shall be appropriately identified as to their function and mounted on a switch panel mounted in the cab convenient to the operator. For easy nighttime operation, an integral indicator light shall be provided to indicate when a circuit is energized.

A single warning light switch shall activate all required warning lights. This switch will allow the vehicle to respond to an emergency "calling for the right of way". When the parking brake is activated, a "blocking the right of way" system shall be automatically activated per NFPA requirements. "Clear" warning lights shall be automatically shed on actuation of parking brake.

100327.1 - ELECTRICAL HARNESS AND WIRING

All wiring shall be hidden, enclosed, or protected under the body in protective material, or within the apparatus body components. In addition, split loom conduits shall be installed and enclosed, suitably secured and protected against heat and physical damage.

100091.1 - BATTERY SWITCH - MASTER DISCONNECT

A rotary type master disconnect switch shall be provided in the cab within easy reach of the driver. The switch shall have a switch plate with Off/On label.

100094.1 - 120 VOLT SHORE POWER RECEPTACLE

A Kussmaul model 091-55-20-120 20 amp "auto-eject" shore power receptacle shall be provided with hinged weatherproof cover and an enclosure for protection from dirt and damage. The shore power plug shall be "ejected" when the chassis's engine starter is engaged and the receptacle shall be wired to any 120 volt A/C equipment requiring shore power.

Location shall be: Determined at the Pre-Construction conference.

100328.1 - DOT IDENTIFICATION LIGHTS

All LED identification lights shall be installed on the vehicle as required by applicable highway regulations.

100329.1 - LICENSE PLATE MOUNTING

An LED license plate light shall be installed on the rear vertical wall of the body.

100330.1 - BRAKE, TURN, TAIL LIGHTS

Two (2) Whelen M6 Series Model M6BTT 4-5/16" x 6-3/4" brake, turn, tail lights with M6FC chrome flanges shall be provided. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The light-heads configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens. The light-heads shall be surface mountable via two screws.

The light-heads shall utilize an optic collimator and a chrome vacuum metalized reflector for maximum illumination. The light-head shall include 164 flash patterns including: a variety of CA Title 13 compliant, sinkable, left/right, top/bottom, in/out, and steady burn. The light-heads shall have the Whelen exclusive NERM (Non-Emergency Recognition Mode) feature.

The lens/reflector assembly shall be wet sealed and resistant to: water, moisture, dust, and other environmental conditions.

The outer lens shall have a hard coating applied to increases strength and ensure longevity. The light engine shall be installed at the rear of the unit and be completely sealed. The pc board shall be conformal coated for additional protection.

The lights shall be furnished with five 6" wire pigtails, a Santoprene rubber gasket and the #M6FC chrome flanges shall be included for installation.

100331.1 - BACK-UP LIGHTS
Two (2) Whelen M-Series, 4" x 6" rear LED back-up lights shall be installed.

100068.1 - OFF-ROAD LIGHTS
There shall be two (2) Warn 4" HID (High Intensity Discharge) lights installed on front bumper/grille guard.

100070.1 - NO BUMPER GROUND LIGHTS
There shall be no under bumper ground lights installed.

100074.1 - GROUND LIGHTS - CAB STEPS
Four (4) Grote #61E41 LED ground lights shall be installed under the cab step area in compliance with NFPA standards, one (1) on each side of the apparatus, wired to parking brake circuit and a switch in the cab.

100182.1 - GROUND LIGHTS - UNDER REAR STEP
Two (2) Grote #61E41 LED ground lights shall be installed under the rear step area, one on each side of the apparatus, wired to parking brake circuit.

100184.1 - WORK LIGHTS
Four (4) Grote #61E41 LED step lights with clear lens shall be installed, wired to switch on the cab dash. Location shall be: in each corner of the protective tubing assembly to light the pump panel and the front body walkway area.

100558.1 - OFF ROAD LIGHTS
Factory installed hood mounted head lights shall be wired to function as off-road lights (they come from the factory not working as "dummy" lights due to the bumper mounted headlights to meet DOT height requirements).

100322.1 - SCENE LIGHTS
Six (6) Rigid Manufacturing Dually 20211 scene lights shall be installed. The LED scene lights shall incorporate clear LED's with a clear optic polycarbonate lens for maximum illumination.

Location shall be: Two (2) outward facing, each side of body, two (2) rear facing.

100503.1 - TILT METER, DIGITAL
A Teraflex digital tilt meter/inclinometer shall be installed on the dashboard.

100108.2 - BACK-UP CAMERA SYSTEM
One (1) Rear View Systems camera system shall be furnished utilizing two (2) cameras which provides a wide field of view and picture quality. A sealed camera enclosure shall be utilized along with electronic connections. The color monitor shall be installed in cab.

One (1) camera shall cover the rear of the apparatus, which will activate during back-up mode and during normal operations if needed.

One (1) camera shall be installed on the front right corner of the body, covering the passenger's side of the apparatus.

100324.1 - BACK-UP ALARM
One (1) Buyers #BA107 back up alarm shall be installed.

100312.1 - ELECTRONIC SIREN
One (1) Whelen, Model #CCSRN3 CENCOM siren and twenty-one (21) auxiliary switches with noise canceling microphone shall be provided. Siren head will be mounted low on the front dash in easy reach of the driver.

100313.1 - SIREN SPEAKER

One (1) Whelen Model #SA315P Projector Series siren speaker shall be provided with bracket. The 100 watt siren speaker shall be designed in a black nylon composite housing with 123 decibel rating.

Location shall be: Behind the front bumper.

100310.1 - MOUNTING OF LIGHT BAR WITH PROTECTIVE GUARD

The cab bar light shall be mounted on the headache bar shelf with an aluminum brush guard protective guard assembly.

100309.1 - LIGHTBAR

A Whelen Legacy low profile Super-LED NFPA lightbar shall be installed. The 54" lightbar shall be designed to meet the minimum clearing requirements for Zone A Upper. The internal components of the lightbar shall be housed within a two piece extruded aluminum base/top. The outer shell shall be clear optic polycarbonate lenses designed to maximize light output and shield against environmental elements.

The lightbar shall utilize snap-in brackets to hold in the lightheads. The brackets shall give the end user the ability to make quick repairs. The lightbar shall have all solid state components. The lightbar shall have two wire harnesses exiting the unit: one (1) 17 conductor 22 gauge control cable which controls all internal light functions; and one (1) 2 conductor 10 gauge cable for main power and ground. Each cable shall be 15' long.

The lightbar shall have four (4) red Linear Super-LED corner modules to provide off angle protection for the front and rear of the vehicle. Each corner module shall consist of twelve (12) Super-LEDs mounted within a vacuum metalized parabolic reflector. The corner module shall also utilize an optic collimator for maximum light output. The twelve (12) LEDs shall be mounted in one straight line.

The solid state I/O board shall be microprocessor controlled. The I/O board shall have built-in reverse-polarity protection and output-short protection. The board shall have the ability to flash sixteen (16) LED warning lights. There shall be a data bank of 13 Scan-Lock flash patterns including steady burn. The board shall also have outputs to add takedown and alley lights. Low power and cruise light function shall also be included. The cruise light function shall allow the user to employ the four (4) corner modules as marker courtesy lights.

The lightbar shall include clear "Take Down" and "Alley Lights" included.

The lightbars shall have an amber "Traffic Advisor" built into the rear portion of the lightbar.

100315.1 - NFPA WARNING LIGHTS

ZONE A -- LOWER FRONT WARNING LIGHTS
Two (2) Whelen M-7 Series Model #M7R 3" x 7" warning lights and a chrome flange shall be in the front forward facing area of the front bumper. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lightheads configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens. The lightheads shall be surface mountable via two screws. The lightheads shall utilize an optic collimator and a chrome vacuum metalized reflector for maximum illumination.

ZONE B AND D -- INTERSECTION LIGHTS
Two (2) Whelen M-7 Series Model #M7R 3" x 7" warning lights and a M6FC chrome flange shall be installed on bumper extension, as far forward as possible. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The light-heads configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens.

ZONE B AND D -- LOWER REAR CORNER WARNING LIGHTS
Two (2) Whelen M-7 Series Model #M7R 3" x 7" warning lights and a chrome flange shall be installed in lower rear side corner body area. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lightheads configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens.

ZONE B AND D -- UPPER SIDE REAR WARNING LIGHTS
Two (2) Whelen M-7 Series Model #M7R 3" x 7" warning lights and a M6FC chrome flange shall be installed in the upper rear body side panel. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lightheads configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens.

ZONE B AND D -- UPPER REAR WARNING LIGHTS
Two (2) Whelen M-7 Series Model #M7R 3" x 7" warning lights and a chrome flange shall be installed in the upper rear corner of the handrails. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lightheads configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens.

ZONE C -- LOWER REAR WARNING LIGHTS
Two (2) Whelen M-7 Series Model #M7R 3" x 7" warning lights and a chrome flange shall be lower rear of body. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lightheads configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens.

100332.2 - CAB REFLECTIVE LETTERING

The cab and body lettering shall match previous TFS Type 3 apparatus.

100335.2 - CUSTOM GRAPHICS

There shall be two (2) TFS door emblems installed.

100337.1 - CAB AND BODY STRIPING

The cab and body shall have a straight Scotchlite reflective stripe applied horizontally. The stripe shall be a 4'' minimum in width and be applied horizontally around the cab and body in accordance with NFPA standards. The purchaser shall specify the color and location of the stripe.

100343.1 - FRONT CHEVRON STRIPING

There shall be alternating chevron striping installed across the front bumper where permitted. The chevron striping shall consist of 6” diamond grade striping in the following colors:

The first color shall be red diamond grade

The second color shall be lime yellow diamond grade

100345.1 - REAR CHEVRON STRIPING

There shall be alternating chevron striping installed on the rear vertical body panel. The chevron striping shall consist of 6” diamond grade striping in the following colors:

The first color shall be red diamond grade.

The second color shall be lime yellow diamond grade.

100346.1 - CAPACITIES PLACARD

The apparatus shall have a reflective placard that provides the following information:

Water Tank Capacity
Pump Capacities
NWCG Typing
Skeeter Contact Information

100348.8 - FOAM NOZZLE

Two (2) Task Force Tips model # DS1040BCP Bubble Cup dual gallonage foam nozzles with stainless steel shutoff ball shall be supplied. The nozzles shall be capable of producing either a fog or straight stream with the ability to instantly aspirate foam by sliding a sleeve forward. For corrosion resistance the nozzles shall be constructed from hardcoat anodized aluminum. An integral pistol grip handle shall be positioned directly below the valve handle. The nozzles shall be configured for flow settings of 10 and 40 GPM at 100 PSI, and have a 1" female NH swivel rocker lug inlet and have a twist off position for positive shut off of the water flow.

Two (2) Task Force Tips model # FS2095BCP Bubble Cup dual gallonage foam nozzles with stainless steel shutoff ball shall be supplied. The nozzles shall be capable of producing either a fog or straight stream with the ability to instantly aspirate foam by sliding a sleeve forward. For corrosion resistance the nozzles shall be constructed from hardcoat anodized aluminum. An integral pistol grip handle shall be positioned directly below the valve handle. The nozzles shall be configured for flow settings of 20 and 95 GPM at 100 PSI, and have a 1" female NH swivel rocker lug inlet and have a twist off position for positive shut off of the water flow.

100605.2 - WHEEL CHOCKS

Two (2) Worden Safety Products HGS-SB large truck NFPA wildland compliant solid sole wheel chocks shall be provided on the apparatus.

100350.1 - SPANNER AND HYDRANT WRENCH SET WITH MOUNTING BRACKET

One (1) Kocheck lightweight spanner wrench holder shall be installed. The bracket shall hold one (1) hydrant wrench and two (2) universal spanners. It shall be mounted on the rear vertical exterior panel of the left side compartment.

100450.2 - STAINLESS STEEL ICE CHEST

A Coleman 6155B700B 54 quart stainless steel cooler (ice chest) shall be installed with a strap type securement device and a base mounting to prevent wear to cooler. It shall be mounted on the driver's side rear corner of the body. More

Location: External Dims : 24.0 x 16.0 x 16.25

100040.1 - CHASSIS PREPARATION

The chassis cab shall be "prepped" for fire apparatus production as follows:
a) Wash and clean chassis
b) Weight chassis for NFPA reports
c) Quality control check in.

100041.1 - SEATING

There shall be a label identifying the number of seat belted locations on the unit.

100042.1 - WARNING LABEL -- SEAT BELT USAGE

A warning label for use of seat belts shall be installed in the cab by the chassis manufacturer.

100043.1 - LOUD NOISE WARNING LABEL

A final stage manufacturer shall install "hearing loss" potential warning labels on the vehicle in any areas or fixed equipment that produces excessive noise levels. (exhaust outlet, sirens and air horns shall not be required for such equipment.)

100135.1 - WARNING LABEL -- NO RIDING ON REAR

A warning label stating: "NO RIDING ON REAR OF APPARATUS" shall be installed on rear of the apparatus. The label shall be applied to the vehicle at the rear step area. The label shall warn personnel that riding in or on these areas, while the vehicle is in motion, is prohibited.

100136.1 - SKEETER BRUSH TRUCK EMBLEMS

Three (3) Skeeter Brush Trucks emblems will be affixed to the cab and body.

100196.1 - FINAL ASSEMBLY AND APPARATUS FINISHING PREP SPECIFICATIONS

The apparatus shall be assembled in a high quality and controlled environment. The fit, form, and finish of the body shall be to the highest level fire apparatus manufacturing standards. On completion, the apparatus shall be totally ready for final inspection and road testing as required by the general requirement section for this specified vehicle.

100361.1 - FIRE PUMP TEST

The fire pump shall undergo factory fire pump run-in tests for a minimum of 2 hours prior to delivery of the completed apparatus. The factory pump testing results shall be furnished on delivery.

100362.1 - ELECTRICAL LOAD ANALYSIS

A 12 volt electrical load analysis shall be provided to denote response and stationary modes of electrical amp load.

100363.1 - COMPLIANCE

The fire apparatus shall be built to the purchaser's requirements in compliance to all State, Local, and Federal highway safety requirements. The vehicle is not intended to meet any or all standards of the NFPA.

100364.1 - FACTORY FIRE PUMP TEST

The pump shall undergo an full in factory fire pump test, which shall be witnessed and certified test by the factory engineer, prior to delivery of the completed apparatus. The factory test acceptance certificate shall be furnished with the apparatus on delivery.

100365.1 - ROAD TEST

A road test will be conducted with the apparatus fully loaded and a continuous run of no less than ten (10) miles. During that time the apparatus will show no loss of power nor will it overheat. The transmission drive shaft or shafts and the axles will run quietly and be free of abnormal vibration or noise.

100366.1 - APPARATUS WARRANTY SKEETER MANUFACTURED ITEMS

A five (5) year parts and labor warranty on items manufactured by Skeeter Brush Trucks. Skeeter Brush Trucks is a subsidiary of Siddons/Martin Emergency Group, a Pierce Platinum Dealer, which has 13 service centers between Texas, Louisiana, and New Mexico. In the event the apparatus is deployed outside of its normal area of operational, warranty and service can be performed at any Siddons-Martin facility at the discretion of the fire department. For warranty issues please contact your local Siddons-Martin or Skeeter Brush Truck service center and request warranty from the service advisor at that location.

100368.1 - FIRE PUMP WARRANTY

Hale Products, Inc., herein referred to as “Hale”, warrants products of its manufacture to be free from defects in material and workmanship, under normal use and service, for a period of three years (3). This limited warranty is effective only if the equipment or apparatus is used as directed, is not subjected to misuse, negligence or accident, and is not altered, treated or repaired by someone other than Hale or its designee. Items not manufactured by Hale shall bear only the limited warranties offered by their respective manufacturers.

The exclusive remedy for breach of this warranty shall be to give Hale written notice thereof and to request a Returned Goods Authorization. Upon receipt of the Returned Goods Authorization, the buyer will return the non-conforming material to Hale F.O.B. its plant within thirty days after the buyer has received the Returned Goods Authorization. Thereupon Hale at its own election shall repair or replace the same or repay the price thereof. No proximate, incidental, consequential or other damages shall be recoverable. Hale shall not be liable for consequential damages or contingent liabilities including; but not limited to, loss of life, personal injury, loss of crops, loss due to fire or water property damage, and consequential trade or other commercial loss arising out of the failure of Manufacturer’s product.

HALE MAKES NO WARRANTIES OF FREEDOM FROM PATENT INFRINGEMENT, OF MERCHANTABILITY, OF FITNESS FOR A PARTICULAR PURPOSE OR ARISING FROM A COURSE OF DEALING OR USAGE OF TRADE OR OTHER LIKE OR DIFFERENT EXPRESS OR IMPLIED WARRANTIES EXCEPT AS MADE ABOVE. More

100369.1 - WATER TANK WARRANTY

MANUFACTURE LIMITED WARRANTY AND NOTICE OF DISCLAIMER OF EXPRESS AND IMPLIED WARRANTIES

Manufacture issues this limited warranty to the customer who is the original retail purchaser ("Customer") of a polypropylene tank (the "Tank") (10 to 4000) gallons.

Manufactures specific warranty will be issued at pre-construction meeting.

100351.1 - PRE-CONSTRUCTION MEETING

A pre-construction meeting shall be conducted at the manufacturer's plant. The transportation to this meeting shall be the responsibility of purchaser.

100353.1 - TERMS OF PAYMENT AND PREPAYMENT PROVISIONS

Terms of payment for the specified vehicle shall be only cash on delivery and acceptance for the unit. No bid will be considered which requires the purchaser to deposit with the bidder a down payment, prepayment of chassis, or any other such consideration as a condition of the bid. Such a requirement shall be grounds for immediate rejection of the bid.

100358.1 - DELIVERY REQUIREMENTS

The apparatus shall be picked up at the manufacturer's plant by the purchaser.