



Specification for:
**NWCG Type 6 Wildland Engine Ford
F550 - 4x4 - Diesel - 4 Door Flat Bed
Body, Alum, 114**

Submitted To:

Oregon State Office of Fire Marshal
3565 Trelstad Ave. SE Salem, OR 97317

Specification **6785**
June 27, 2022

Prepared by:
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Hughes Fire Equipment Inc.

Proposal

We are pleased to submit the following specifications to you for a **Type 5/6** 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 Hillsboro, 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 sixteen (16) 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 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 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 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 chassis manufacturer shall provide one (1) operational manual. This manual may be in either a notebook type binder, with reference tabs or USB thumb drive with all of the printed material in an electronic format (Adobe Acrobat PDF).

100044.2 - PAINT

1. Cab Color: White
2. Cab Secondary Color: N/A
3. Description: Solid White

100026.2 - CHASSIS SPECIFICATIONS

One (1) FORD F-550, two axle drive 4x4, dual rear wheels (DRW), four (4) door, XL, Crew Cab chassis.

Measurements / Capacities:

Cab to Axle: 60 inch (Unless superseded below in options)

Fuel tank size: 40 US Gallon

Wheelbase: 179 inches

D.E.F Tank Size: 7.4 US Gallon

Weight Ratings:

GVWR: 19,500 LBS

Front GAWR: 7,500 LBS

Rear GAWR: 14,706 LBS

Engine:

Powerstroke 6.7L Diesel V8 OHV

Intercooled Turbo

330 HP at 2,600 RPM

825 ft.-lbs. of torque at 2,000 RPM

Transmission:

TorquShift 10 speed automatic transmission with overdrive.

PTO Provision

Axles:

Front Axle: 7,500 LBS HD front package, stabilizer bar, front shocks, auto locking front hubs with a manual backup feature.

Rear Axle: 14,706 LBS HD rear package, stabilizer bar, rear shocks.

Differential gearing: 4.88 gears, limited slip

Electric Shift on the Fly transfer case.

Wheels:

Factory tires: 225/70/R19.5, radial all-weather tread.

Front wheels: two (2) 19.50" x 6" steel disc, ten (10) hole pattern steel wheels

Rear wheels: four (4) 19.50" x 6" steel disc, ten (10) hole pattern dual rear wheels.

Electrical System:

One (1) alternator 240 amp, 12-volt

Two (2) 12-volt, 750 CCA, 78-amp hour batteries

AM/FM Stereo with MP3 Player with fixed antenna

Upfitter Switches

Upfitter Interface Module

Operator controlled Manual Regeneration System

Trailer Brake Controller

Trailer harness

High Idle Control: Capability

Cab Controls:

Controls for heat, defroster, and air conditioning

Manual Door Locks: (Unless superseded below in options)

Manual Windows: (Unless superseded below in options)

Manual Mirrors: (Unless superseded below in options)

Manual tilt steering wheel: (Unless superseded below in options)

Safety / Security:

Air bags: Safety canopy system, first row and second row overhead airbag restraint system, dual seat mounted side impact airbag restraint system
Brakes: 4-wheel ABS, disc brakes, brake assist
Driveline traction control
Factory jack and lug nut wrench set
Factory Tow hooks

Seats:

Seating capacity: Six (6)
Front 40-20-40 HD folding split bench seat
Rear 60-40 HD folding vinyl bench seat
Manual driver lumbar support
4-way driver seat adjustment
4-way passenger seat adjustment

Miscellaneous Included Equipment:

Power Steering
Exhaust system: horizontally mounted, discharge on passenger side of chassis aft of rear wheels.
Cooling system: protected to -30 degrees
Printed Manuals: one (1) printed chassis operation manual

Colors:

Interior color: Medium Earth Gray
Exterior cab color: White
Black Grill

203807.1 - 60" CAB TO AXLE

The chassis Cab to Axle measurement shall be 60".

204368.1 - XL VALUE PACKAGE

XL VALUE PACKAGE

Chrome bumper
Steering wheel mounted cruise control

203918.1 - FLEET/GOVERNMENT INCENTIVE DISCOUNT

*** NOTE*** Pricing quoted is contingent upon the end user (customer) filing for and receiving OEM Fleet/Government Pricing Number.

*** FAILURE BY THE CUSTOMER TO RECEIVE THE OEM FLEET/GOVERNMENT PRICING NUMBER WILL RESULT IN FULL LIST PRICE BEING CHARGED FOR THE CHASSIS ***

100045.1 - NO LIFT OR LARGER TIRES/WHEELS

No Lift or Larger Tires/Wheels shall be installed on the apparatus.

100451.1 - SPARE TIRE WHEEL

One (1) spare tire and wheel shall be 225/70 R19.50, radial all weather highway tread. Wheel for the spare shall be 19.50" x 6.00" steel disc, ten (10) hole pattern steel disc.

100055.1 - MOUNTING SPARE TIRE AND WHEEL

The spare tire and wheel shall be mounted on top of the water tank.

100059.1 - FRONT BUMPER

The factory bumper shall be removed and replaced with a heavy duty Ranchhand off-road bumper and grille protection assembly. The bumper extension unit shall be powder coated black to purchaser requirements. A receiver hitch shall be installed at the front of the apparatus in the front bumper. The bumper assembly shall be winch ready.

100109.1 - NO-CAB STEPS INSTALLED

There shall be NO cab steps installed on the chassis.

100085.1 - CUSTOM FABRICATED CONSOLE AND SWITCH PANEL

A custom fabricated DA aluminum electrical console and enclosure shall be located between the driver's and passenger's seats. It shall house the siren, switches, cup holder, map box, equipment storage, and auxiliary equipment. It shall have a custom poly faceplate. It shall extend fully to the dash.

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#.

The rear receiver assembly shall be equipped with two (2) heavy duty rear tow loops, one (1) each side.

100550.1 - FIRE PUMP SPECIFICATIONS

A Darley model number 2 BE 18 Vanguard gasoline powered centrifugal pump shall be installed. The medium pressure, high volume pump, direct drive, engine mounted shall meet the following performance requirements:

375 GPM @ 25 PSI
300 GPM @ 45 PSI
100 GPM @ 140 PSI

Pump Design

Pump casing shall be of anodized aluminum and vertically split, with a minimum tensile strength of 33,900 PSI - bronze-fitted. Pump ratio to be selected by the manufacturer's Engineering Department. Seal rings shall be renewable, double labyrinth, wrap around bronze type. Bearings are to be heavy duty, deep groove, radial-type ball bearings, oversized for long life. Bearings to be protected at all openings from road dirt and water splash with oil seals and water slingers.

The pump unit shall be supplied with a control panel for remote mounting, panel light, hour meter / tachometer, pressure gauge, on/off ignition switch, and a low oil pressure light, engine choke, engine throttle

Mechanical Seal

The pump shall be furnished with a Darley maintenance free mechanical seal. The mechanical seal shall be a non-contacting, non-wearing seal design. Seal shall be a Silicon Carbide Mechanical seals with welded springs. The stationary face of mechanical seals shall be made from Silicon Carbide, and be extremely hard and of a heat dissipative material, which resists wear and dry running damage much better than conventional Ni-resist and Tungsten Carbide materials

Pump Shaft

Pump drive shaft shall be precision ground, heat treated alloy steel, with a 1-3/8 spline. Gears shall be helical design, and shall be precision ground for quiet operation and extended life. The pump shaft shall be splined to receive broached impeller hubs, for greater resistance to wear, torsional vibration, and torque imposed by engine, as well as ease of maintenance and repair. Pump shaft to be precision-ground 416 stainless steel.

Impeller

The impeller shall be a high strength bronze alloy, splined to the pump shaft for precision fit, durability, and ease of maintenance.

Impeller shaft oil seals shall be constructed to be free from steel components except for the internal lip spring. The impeller shaft oil seals shall carry a lifetime warranty against damage from corrosion from water and other fire-fighting fluids.

Exhaust-Type Primer

The mufflers are coated with High Temp Powder Coat. The primer bodies are bronze with stainless steel components. The outlet of the primer is equipped with a 1.5" male NPT . Is easily operated via push-pull control wire connected to an internal butterfly valve. The venturi components are sized for the most efficient priming time and height possible utilizing the exhaust pressure available from the engine. Significantly lighter than a 12V electric primer. Requires much less physical effort by the operator than a mechanical hand primer.

Dimensions & Weight

27"L x 21"W x 25"H, 145lbs (66kg)

Suction 3" NPTF

Discharge (2) 1.5" NPTF and (1) 2.5" NPTF

Documentation

Pump Warranty/Guarantee to be included with each proposal. Pump warranty shall be for three (3) years or 3,000 hrs. Additional details about the warranty can be found in the Skeeter user's manual of this vehicle.

Engine

The pump shall be powered by an 18 horsepower, Briggs and Stratton Vanguard gasoline engine with a 16 amp regulated alternator and 12 volt electric starter with a backup recoil starter. A 6 gallon plastic fuel tank shall be supplied.

100272.1 - STAINLESS STEEL PLUMBING SYSTEM

The auxiliary fire pump plumbing system shall be built mostly 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. A rain cap will be installed on the vertical exhaust outlet.

100265.1 - PUMP CONTROL 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.

An engine and pump control panel shall be installed in the pump panel enclosure. The following shall be on the pump panel:

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

The pump control panel shall be installed at the passenger's side rear corner of the body.

100419.1 - SECONDARY PUMP CONTROLS, MANUAL, GAS PUMP

The cab shall be equipped with secondary pump instrument controls in the cab. This panel shall include the following:

1. On-off start switch
2. Oil and temperature alarm indicators
3. Running indicator light - blue
4. Pressure gauge
5. Manual vernier throttle

NOTE: ***ONLY FOR GASOLINE PUMPS***

100268.1 - FUEL TANK

A remote fuel tank shall be installed for the auxiliary fire pump assembly at the rear of the apparatus. The fuel tank shall be mounted in a bracket. The fuel tank shall have capacity of approximately six (6) gallons. There shall be a fuel hose with plug in connections furnished between the fuel tank and carburetor assembly for the auxiliary pump.

100256.1 - ELECTRIC START WIRING TO CHASSIS

The 12 volt positive and negative cables shall be provided from the chassis battery to the fire pump area, wired through the master disconnect solenoid system. 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 passenger's side rear of the body. The sub-structure shall have welded in mounting sub-plates between the structural members.

100253.1 - FIRE PUMP MASTER DRAIN

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

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 controlled with a direct quarter-turn ball valve control handle and shall have 2-1/2" NH female thread with removable screen with plug.

100284.1 - TANK TO PUMP LINE INSTALLATION

The 3" tank to pump line shall be installed with a flexible hump hose connection and stainless steel clamps to the water tank. The 3" 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.

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. 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.

100456.1 - 1-1/2" PRE-CONNECT DISCHARGE -- TRANSVERSE HOSEBED

One (1) 1-1/2" pre-connect discharge shall be installed on the transverse 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 label on the valve control handle.

The valve shall be on the manifold, with a feed line to the transverse hose tray in front of the tank, above the large transverse compartment.

100522.1 - 1.5" FRONT BUMPER DISCHARGE - DRIVER'S SIDE

One (1) 1.5" discharge shall be piped to the front bumper area, located on the driver's 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.

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. A 1.5" master control valve shall be installed at the rear pump manifold area with direct control handle. Two (2) 1" valves shall be installed at the front of the water tank.

100288.1 - HOSE REEL

One (1) Hannay aluminum hose reel shall be installed. The reel shall have leak proof ball bearing swing joint, adjustable friction brake, electric 12 volt rewind and manual crank rewind provisions.

The reel shall be mounted on the driver's side rear corner of the flatbed body.

100292.1 - REEL CAPACITY

Each hose reel shall have a capacity of 150 feet of hose.

100295.1 - HOSE REEL DISCHARGE

One (1) 1" discharge shall be piped from the fire pump to each hose reel with flexible high pressure hose. The quarter turn ball valve shall be on manifold.

100280.1 - GROUND SWEEP DISCHARGES -- FRONT BUMPER

Two (2) ground sweep discharge nozzles shall be installed, one each side of the front bumper. Each nozzle shall have a 1" electric control valve, switched independently in the cab. The discharges shall be equipped with removable ground sweep nozzles angled accordingly with a 180 degree total front sweep pattern. The flow rate shall be 15-30 gpm.

Each nozzle shall have a custom fabricated brush guard installed to protect from damage when off road. The valves and manifold shall be protected from damage by the front bumper and skid plate.

One (1) 1.5" front bumper ground sweep discharge shall be piped to the front bumper area. The discharge shall be controlled by a 1.5" manual override valve at the rear pump area. Flexible 1.5" diameter high pressure hose shall be provided from the pump to the sweep nozzles with low point drains where necessary.

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 at the rear of the apparatus, within easy reach of pump operator. The unit shall be adjustable, permitting various foam ratio percentages to be educted depending on the nozzles in use. Foam selection percentages between .07 and 3% shall be available. The foam system has been designed for simplicity of operation and maintenance. The 3/4" supply line can be disconnected from the scotty foam system and used as a flush line.

MAXIMUM WORKING PRESSURE: 300 PSI

100226.1 - WATER TANK GAUGES

One (1) Class 1 "Intelli-Tank" water 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 tank. A pressure transducer shall be mounted on the outside of the tank in an easily accessible area.

CAB MOUNTED -

One (1) Class 1 112124 "Intelli-Tank" mini water tank level gauge shall be installed in the cab or center console. The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/4 tank.

100200.1 - WATER TANK SPECIFICATIONS

The water tank shall have a capacity of 400 gallons.

100203.1 - TANK BUILD SPEC

The water tank shall be constructed of black polypropylene, poly-welded and tested inside and out. The tank manufacturer shall define the floor, top, sides, ends, and baffles material thickness. The tank shall carry a lifetime warranty.

The transverse and longitudinal swash partitions shall be interlocked and welded to each other as well as to the walls of the tank. The partitions shall be designed and equipped with vent holes to permit air and liquid movement between compartments. The tank covers shall be welded on top and bottom, and the transverse partitions, providing rigidity during fast fill operations. Drilled and tapped holes for lifting eyes shall be provided in the top area of the water tank.

The water tank manufacturer shall certify the capacity of the water tank prior to delivery of the apparatus. This capacity shall be recorded on the manufacturer's data plate.

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 translucent 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 driver's side rear corner of the water tank.

204344.1 - DIRECT TANK FILL

There shall be a direct 2.5", 1/4 turn stainless steel tank fill valve with swivel female coupling and cap installed at the rear of the tank.

100209.1 - 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 3" 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.

100215.1 - PUMP TO TANK CONNECTION

An 1-1/2" 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 PLUG

A 1.5" drain plug shall be installed in the bottom of the water tank under P/S wheel well for water tank draining and flush-out of debris.

100228.2 - FOAM TANK SPECIFICATIONS

The Class A foam tank shall have a capacity of 15 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 (FOAMPRO AND AQUIS ONLY)

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

THIS IS ONLY COMPATIBLE WITH FOAMPRO AND AQUIS FOAM SYSTEMS

100547.2 - FLAT-BED BODY -- ALUMINUM -- 6" RAILS

The body will be a custom fabricated severe service flatbed type constructed of aluminum. The body shall be 114" long by 96" wide, designed for a 60" cab to axle (chassis) dimension. The body shall be specifically designed and engineered for off-road wildland firefighting.

MAIN FRAME

The body shall have 6" x 1.75" structural aluminum channel main frame rails. The body frame rails shall be isolated from the truck frame by .500" industrial isolators.

SUB-FRAME

The cross-members shall be 3" x 2 5/16" structural aluminum I beams with cross-members on 12" centers.

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.

ANGLED CORNERS

The front corners of the flat-bed body will be angled at approximately 45°.

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.

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 aluminum. 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 .125" 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 approximately 27 degrees 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 step side flat-bed body. The corners of the body shall have vertical risers space in critical areas. The railings shall act as protection for 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.

203802.1 - DIAMOND PLATE FINISH BODY AND COMPARTMENTS/TRAYS

The exterior surface of all body skins, compartments, and trays shall all be polished diamond plate aluminum finish.

100437.1 - FRONT BODY, UPPER, TRANSVERSE COMPARTMENT W/DOORS

A transverse compartment 24"W x 24"H x 96"L (exterior dimensions) shall be installed in front of the water tank on the body floor. The compartment shall have vertically hinged swing doors at each end. The compartment shall be lined with turtle tile.

The actual door opening shall be approximately 3" smaller in dimension.

100457.2 - HOSE BED, TRANSVERSE -- FRONT OF TANK

A hose storage bed shall be installed in front of the water tank. The dimensions shall be approximately: 12" wide, 12" high, and 96" long. The hose bed shall be constructed entirely of .125" aluminum on all exterior surfaces. The ends shall be open for hose deployment. A hose net shall be installed at both ends to protect the hose from accidental deployment.

There shall be a full length divider installed in the tray.

100144.1 - DRIVERS SIDE UPPER BODY COMPARTMENT

A body equipment storage compartment shall be installed on the flatbed surface, driver's side of the apparatus. The exterior dimensions shall be approximately 48" wide, 24" high, and 18" deep. The compartment shall be constructed of .125" aluminum on all exterior surfaces.

The compartment shall be equipped with:

- a lift up door with latch installed
- key type door locks.
- dual gas operated door opening assistant cylinders.
- a white LED strip light that is automatically controlled by a door activated switch.

-a louvered vent

-Turtle Plastics Turtle Tile Compartment Matting shall be installed in the compartment. Turtle Tile shall be black in color and lock together design.

The actual door opening shall be approximately 3" smaller in dimension.

100148.1 - PASSENGERS SIDE UPPER BODY COMPARTMENT

A body equipment storage compartment shall be installed on the flatbed surface, passenger's side of the apparatus. The exterior dimensions shall be approximately 48" wide, 24" high, and 18" deep. The compartment shall be constructed of .125" aluminum on all exterior surfaces.

The compartment shall be equipped with:

-a lift up door with latch installed

-key type door locks.

-dual gas operated door opening assistant cylinders.

-a white LED strip light that is automatically controlled by a door activated switch.

-a louvered vent

-Turtle Plastics Turtle Tile Compartment Matting shall be installed in the compartment. Turtle Tile shall be black in color and lock together design.

The actual door opening shall be approximately 3" smaller in dimension.

204342.2 - SCBA STORAGE, WHEEL-WELLS (Qty: 4)

There shall be four (4) SCBA bottle storage tubes located in the wheel-well, two (2) each side of the body. There shall be an aluminum locking doors securing the bottles.

203878.1 - DIVIDERS FOR HARD SUCTION, REAR CENTER UNDER BODY COMPARTMENT

Two (2) dividers shall be installed on the driver's side of the rear, center, under body compartment, for storage of 8' lengths of hard suction. The dividers shall be approximately 6" apart, 5" tall, and run the depth of the compartment.

THIS OPTION REQUIRES 6" MAIN BEAMS FOR THE BED FRAME

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 compartment shall be between 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. The floor shall be constructed of .190" aluminum.

The exterior dimensions shall be approximately:

108" for a 114"L bed

120" for a 138"L bed

100169.4 - HOSE TRAY -- DRIVERS SIDE

A hose storage tray shall be installed over the driver's side equipment compartment, on the driver's side of the apparatus. The exterior dimensions shall be approximately: 16" wide, 10" high, and 72" long. The hose tray shall be constructed entirely of .125" aluminum on all exterior surfaces. The assembly shall be equipped with a hinged lift up aluminum door on top, enclosed front panel, and open rear area. There shall be a set of gas shocks installed on the lid of the tray to aid in opening and closing the tray in a safe manner. The hose tray shall be equipped with Turtle Tile floor covering.

The actual door opening shall be approximately 3" smaller in dimension.

100382.1 - TOOL STORAGE TRAY/COMPARTMENT - PASSENGER SIDE

A tool storage compartment shall be installed over the passenger's side equipment compartment, on the passenger's side of the apparatus. The exterior dimensions shall be approximately: 16" wide, 8" high, and 72" long. The compartment shall be constructed of .125" aluminum on all exterior surfaces. The compartment shall be equipped with a hinged lift up aluminum door with a latch installed. There shall be a set of gas shocks installed on the lid of the tray to aid in opening and closing the tray in a safe manner. The compartment shall be equipped with Turtle Tile floor covering.

The actual door opening shall be approximately 3" smaller in dimension.

204070.1 - I-ZONE BRACKETS, SWING-OUT

Two (2) swing-out I-zone brackets will be provided and mounted at the rear of the apparatus, one (1) on each side. The brackets will be designed with adequate reinforcement to eliminate flexing of the body and not interfere with any of the rear facing lights when carrying hose. The brackets will be mounted beside the upper grab rail on the rear and as high as practical.

100180.1 - REAR PULL OUT STEP

There shall be a rear "Pull-Out-Fold-Down" step located at the driver's side 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 driver's side of the body. The step shall be equipped with lighting to NFPA standard.

100692.1 - SIDE BODY ACCESS STEPS

There shall be a body access step assisting in access to top of the tool/hose trays from the side of the apparatus. It shall be a stirrup design, and be fabricated from 1" aluminum tubing. They shall be installed under the front of the body, one (1) each side.

100325.1 - ELECTRICAL ENCLOSURE

An electric wiring enclosure for the 12 volt wiring shall be installed in the forward wall of the driver's side upper body compartment with an access panel. The dimensions of the enclosure shall be approximately 20" high, 14" 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, 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 secured with mechanical type fasteners and rubber grommets

Wiring between cab and body shall be split using 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.

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.

There shall be a GREEN indicator light in the center console indicating the power is "ON".

203897.1 - 120 VOLT POWER SUPPLY

There shall be 120 volt power supply installed in the driver's side upper body compartment. 120 volts shall be supplied by the battery charging system, and will be energized only when the vehicle is connected to shore power. The system shall terminate with two (2) 15 amp outlets in a weatherproof box.

204322.1 - BLUE SEA SHORELINE

There shall be a Blue Sea auto eject installed on the apparatus. The auto eject shall be connected to the charging system on the apparatus. The auto eject shall be a 20amp auto eject.

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 lighthouse configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens. The lighthouses shall be surface mountable via two screws.

The lighthouses shall utilize an optic collimator and a chrome vacuum metalized reflector for maximum illumination. The lighthouse shall include 164 flash patterns including: a variety of CA Title 13 compliant, sinkable, left/right, top/bottom, in/out, and steady burn. The lighthouses 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 increase 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 pigtailed, 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.

100096.1 - TRAILER PLUG

Wiring shall be provided at the rear of the apparatus for the towing of an auxiliary trailer. A 12 volt seven (7) pin electrical connector shall be wired to the chassis stop, running, and turn lights.

100067.1 - OFF ROAD LIGHTS

No off road lights shall be installed.

100070.1 - NO BUMPER GROUND LIGHTS

There shall be no under bumper ground lights installed.

200312.1 - GROUND LIGHTS, CAB, 4 DOOR, LED STRIPS

Four (4) LED ground strip lights shall be installed under the cab step area in compliance with NFPA standards, two (2) on each side of the apparatus, wired to the Cencom, and the chassis interior lights.

100184.1 - BODY WORK LIGHTS

Four (4) Grote #63871 LED body work lights with clear lens shall be installed, wired to switch on the Cencom. They shall have an aluminum housing, and be 800 lumens at 1.4 amps. Location shall be: in each corner of the protective tubing assembly to light the pump panel and the front body walkway area.

100321.2 - SCENE LIGHTS

Four (4) 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) side facing and two (2) rear facing lights on upper rear body

100107.1 - BACK-UP CAMERA SYSTEM

One (1) Rear View Systems camera system shall be furnished utilizing a camera 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.

Location:

100099.1 - RADIO INSTALLATION

One (1) fire radio, one (1) faceplate (if applicable) and one (1) speaker shall be supplied by the purchaser to be installed.

THIS OPTION DOES NOT INCLUDE INSTALLATION OF ANTENNAS, CABLES, OR MDT/MCT.

ALL EQUIPMENT NECESSARY TO INSTALL/OPERATE A CUSTOMER SUPPLIED RADIO MUST BE PRESENT AT SKEETER BRUSH TRUCKS 60 DAYS PRIOR TO PRODUCTION. IF ALL COMPONENTS ARE NOT PRESENT THE RADIO WILL NOT BE INSTALLED

100620.1 - INSTALLATION -- RADIO ANTENNA

One (1) radio antenna with cable shall be supplied by the purchaser and installed on the apparatus at a location to be determined by the purchaser.

THIS OPTION DOES NOT INCLUDE INSTALLATION OF RADIOS, OR MDT/MCT.

ALL EQUIPMENT NECESSARY TO INSTALL/OPERATE A CUSTOMER SUPPLIED ANTENNA MUST BE PRESENT AT SKEETER BRUSH TRUCKS 60 DAYS PRIOR TO PRODUCTION. IF ALL COMPONENTS ARE NOT PRESENT THE ANTENNA WILL NOT BE INSTALLED

100324.1 - BACK-UP ALARM

One (1) back up alarm shall be installed.

203773.1 - ELECTRONIC SIREN

One (1) Whelen, Model #CCSRNT4G CenCom Carbide siren with auxiliary switches with noise canceling microphone shall be provided. Siren head will be mounted on the center console 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 grille.

100310.1 - MOUNTING OF LIGHT BAR WITH PROTECTIVE GUARD

The lightbar shall be mounted on the headache rack shelf with an aluminum brush guard protective 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 lighthoods. 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".

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

204356.1 - NFPA WARNING LIGHTS

ZONE A -- LOWER FRONT WARNING LIGHTS

Two (2) Whelen ION (IONSMT) warning lights with chrome flanges 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 lighthouse configuration shall consist of RED 18 Super-LEDs and a clear optic polycarbonate lens. The lighthoods shall be surface mountable via two screws. The lighthoods shall utilize an optic collimator and a chrome vacuum metalized reflector for maximum illumination.

ZONE B AND D -- INTERSECTION LIGHTS

Two (2) Whelen ION (IONSMT) warning lights with chrome flanges shall be installed on bumper extension, as far forward as possible. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthouse configuration shall consist of RED 18 Super-LEDs and a clear optic polycarbonate lens.

ZONE B AND D -- LOWER SIDE REAR CORNER WARNING LIGHTS

Two (2) Whelen ION (IONSMT) warning lights with 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 lighthouse configuration shall consist of RED 18 Super-LEDs and a clear optic polycarbonate lens.

ZONE C -- LOWER REAR WARNING LIGHTS

Two (2) Whelen ION (IONSMT) warning lights with chrome flanges shall be lower rear of body. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthouse configuration shall consist of RED 18 Super-LEDs and a clear optic polycarbonate lens.

203904.1 - NO CAB ROOF LETTERING

100338.1 - REFLECTIVE STRIPING

The sides of the vehicle shall be provided with a .75" x 4" x .75" wide 3M brand Scotchlite reflective multi-stripe. There shall be a 1" gap between each of the stripes. The striping shall be placed up to 60" above ground level and shall conform to NFPA reflectivity requirements. At least 50% of the perimeter length of each side shall have reflective striping.

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

100388.2 - SUCTION HOSE

Three (3) 2.5" x 8 foot lengths of Kocheck PVC flexible suction hose shall be provided and equipped with lightweight couplings.

100389.1 - BARREL SUCTION STRAINER

One (1) barrel suction strainer shall be provided. The heavy duty strainer shall be constructed of chrome plated brass. It shall be 2.5" NH female. The 2.5" barrel strainer length shall be 6 7/8" with a weight of 3 lbs.

100421.2 - SCBA BRACKETS (Qty: 4)

Four (4) SCBA bracket shall be installed.

Location: Two each in the left and right side over wheel compartments.

100040.1 - CHASSIS PREPARATION

The chassis cab shall be "prepped" for fire apparatus production as follows:

- a) Wash and clean chassis
- b) Weigh 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.

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.

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. Upon completion, the apparatus shall be ready for final inspection and road testing as required herein.

100361.1 - FIRE PUMP OPERATIONS TEST

The fire pump shall have a operational pump test performed by a Skeeter Brush Trucks technician with a run time of one (1) hour to confirm proper operations of all pump related components.

*** NOTE: ALL TESTING SHALL BE DONE AND PERFORMANCE OBSERVED BETWEEN SEA LEVEL AND 1000' ELEVATION.

*** HIGH ALTITUDE PERFORMANCE MAY NOT REPRESENT TESTING RESULTS SHOWN.

100362.1 - ELECTRICAL LOAD ANALYSIS

A 12 volt electrical load analysis shall be performed in order to test response and stationary modes of electrical amp load.

100363.1 - NFPA COMPLIANCE

The fire apparatus shall be built to the purchaser's requirements stated in this specification in compliance with all state and federal highway safety requirements. The vehicle is designed to meet NFPA 1906.

Unless included in the specification, the customer will provide all the necessary equipment to comply with NFPA 1906 Section 10.2.

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 and a ten (10) year warranty on the structural integrity of the body. For warranty issues please contact your local dealer or Skeeter Brush Truck service center and request warranty from the service advisor at that location.

100369.1 - WATER TANK WARRANTY

MANUFACTURER'S LIMITED WARRANTY AND NOTICE OF DISCLAIMER OF EXPRESS AND IMPLIED WARRANTIES- 10 YEAR EQUIVALENT.

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

100351.1 - PRE-CONSTRUCTION CONFERENCE

A pre-construction conference shall be held at the customer's location. The purpose of the conference is to review and aspects of apparatus components and construction. It shall be attended by representatives of the purchasing department, and the apparatus dealer.

100651.1 - DRAWINGS

There shall be design drawings submitted to the customer prior to the pre-construct conference. The CAD drawings shall include all sides of the apparatus. The customer shall agree to the drawings reflecting the correct apparatus design and layout prior to construction.

100353.1 - TERMS OF PAYMENT AND PREPAYMENT PROVISIONS

Terms of payment for the specified vehicle shall be only cash or equivalent 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.

204229.1 - FINAL INSPECTION, MANUFACTURING PLANT

Representatives from the purchaser and the dealer shall be present at Skeeter's manufacturing facility in Hillsboro, Tx for the final inspection of the apparatus. A factory representative will assist the purchaser with review of the specifications to confirm they match the apparatus.

Cost of transportation to and from the facility shall be the responsibility of the purchaser.

*** NOTE, UNLESS PRIOR APPROVAL BY SKEETER BRUSH TRUCKS, FINAL INSPECTION AT THE PLANT IS MANDATORY ***

100356.1 - DEMONSTRATION AND FAMILIARIZATION OF APPARATUS

The bidder shall demonstrate and familiarize the purchaser regarding the vehicle's operation. This shall include operation of chassis, major components, review of delivery information and documentation. This demonstration shall be completed at Skeeter Brush Trucks factory location in Hillsboro, Texas.

100358.1 - DELIVERY REQUIREMENTS

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



Component List

Customer:	Oregon State Office of Fire Marshal	Spec Number:	6785
Address:	3565 Trelstad Ave. SE	Job Number:	
City, State Zip:	Salem OR 97317	Spec Date:	June 27, 2022
Contact:		Body:	Flat Bed Body, Alum, 114
Sales Rep:	Nick Hendricks	Chassis:	Ford F550 - 4x4 - Diesel - 4 Door
Dealership:	Hughes Fire Equipment Inc.	Tank:	400 Gallons, Poly

Line	Option	Qty	Description
001	100044.2	1	Paint (Single Stock Color)
002	100026.2	1	Ford F550 - 4x4 - Diesel - 4 Door (2022.3)
003	203807.1	1	Chassis 60" CA
004	204368.1	1	XL Value Package
005	203918.1	1	Chassis Fleet/Government Incentive Discount
006	100045.1	1	NO -- Lift or Larger Tires/Wheels
007	100047.1	1	Stock Tires/Wheels
008	100451.1	1	Spare Tire and Wheel, 225/70 R19.50
009	100055.1	1	Spare Tire, Top of Tank
010	100059.1	1	Ranchhand Bumper Black Powder Coat Steel
011	100109.1	1	NO -- Cab Steps
012	100186.1	1	NO -- Cab Protection
013	100085.1	1	Cab Console, Alum, Custom
014	100372.1	1	NO -- Cab 2nd Row Poly Compartment
015	100076.1	1	NO -- Front Winch
016	100178.1	1	Receiver, Rear, Winch/Rope/Trailer, 10,000#
017	100550.1	1	Pump, Darley 2 BE 18V
018	100272.1	1	Standard Stainless Steel Manifold
019	100285.1	1	Valves, S/S, Quarter Turn
020	100483.1	1	Hose Threads
021	100263.1	1	Exhaust System, Vertical, Rain Cap, Aux Pump
022	100195.1	1	No -- Pump House
023	100265.1	1	Pump Control Panel Enclosure
024	100419.1	1	Remote Pump Control in Cab (Manual), Gas Pump
025	100268.1	1	Pump Fuel from Fuel Can (Plastic 6 gallon)
026	100256.1	1	Battery Supply, 12V, Chassis, Master Switch & Solenoid
027	100255.1	1	Aux Fire Pump Mntg, P/S Rear, Bolted
028	100253.1	1	Pump Drain, Master Drain--Low Point
029	100273.1	1	Upgrade Manifold for Bumper Discharges
030	100270.1	1	Intake, Gated, 2.5"FM, Rear, w/2.5" Plug, Aux Pump, Direct Vlv Cntrl
031	100284.1	1	Tank-To-Pump, Water Tank, 3", Install
032	100281.1	1	Tank Fill and Cooling Line, Water Tank, 1", Aux Pump
033	100274.1	1	Discharge, 2.5", Rear, 2.5"FM x 1.5"M, 1.5" cap
034	100456.1	1	Discharge, 1.5", Transverse, Pre-connect
035	100522.1	1	Discharge, 1.5", Front Bumper
036	100441.1	1	Discharge, 1.5", Front Body (Through Tank)
037	100288.1	1	Hose Reel, Hannay, D/S Mount, Elec Rewind, Alum
038	100292.1	1	150 Foot Reel Capacity
039	100295.1	1	Hose Reel Discharge, 1" Valve and Flex-Hose, Local Cntrl

040	100280.1	1	Ground Sweep Discharges, Front Bumper
041	203936.1	1	No -- Front Monitor
042	100306.1	1	No -- Whip Lines
043	100259.1	1	Foam system, Scotty #4171, Through-the-pump, Built-in, Aux Pump
044	100226.1	1	Water Tank Gauge, Class 1, Rear & Cab
045	100200.1	1	Water Tank Capacity, 400 Gallons, Poly
046	100203.1	1	Water Tank, Specs
047	100204.1	1	Water Tank Shape, Rectangular
048	100205.1	1	Water Tank, NFPA Compliance
049	100206.1	1	Tank Gauge, Translucent Tank Sight Level
050	100207.1	1	Fill Tower, Water Tank, 12" x 12" x 6", D/S Rear Corner
051	204344.1	1	Direct Tank Fill, 2.5"
052	100209.1	1	Overflow, Water Tank, 3" PVC Pipe, <500G
053	100211.1	1	NO -- Water Tank Sump
054	100215.1	1	Pump to Tank, Fill Connection, 1.5", 300 GPM Flow
055	100216.1	1	Water Tank Drain Plug, 1.5"
056	100222.1	1	NO -- Tank Perimeter Wall
057	100228.2	1	Foam Tank Capacity, 15 Gallons, Class A, Poly
058	100232.1	1	Foam Tank, Fill and Vent, Class A
059	100233.1	1	Foam Tank to Foam System, 3/4"
060	100235.1	1	Foam Tank Drain and Valve, 3/4"
061	100237.1	1	NO -- Electric Foam Gauge
062	100547.2	1	Flat Bed Body, Alum, 114" x 96", 60" CA
063	203802.1	1	Diamond Plate Finish Body and Compartments/Trays
064	100437.1	1	Transverse Compartment (Flat Bed) 24"W x 24"H x 96"L w/Doors
065	100457.2	1	Transverse Hose Bed, Front of Tank
066	100144.1	1	Compartment, Drivers Side, Lift-Up Door
067	100148.1	1	Compartment, Passengers Side, Lift-Up Door
068	100150.1	1	NO -- Underbody Compartments, Front Body
069	100154.1	1	NO -- Underbody Compartments, Rear
070	204342.2	4	SCBA Bottle Storage, Wheel-Wells (4)
071	203878.1	1	Dividers For Hard Suction, Rear Center Under Body Compartment
072	100159.1	1	Rear Center Under Body Compt, Drop Down Door
073	100165.1	1	NO -- Slide Out Tray, Rear
074	100169.4	1	Hose Tray, Driver's Side, 72 in. long
075	100173.1	1	NO -- Hose Tray, Passenger Side
076	100382.1	1	Tool Tray, Passenger Side, 72 in. long.
077	100175.1	1	NO -- Tool Tray, Drivers Side
078	204070.1	1	I-zone Brackets, Swing-Out
079	100180.1	1	Rear Step, Pull out and drop down
080	100181.1	1	Step, Sig-4, Folding, Lighted, DS REAR(1)
081	100692.1	1	Side Body Access Steps, Stirrup (2)
082	100325.1	1	Fuse Box
083	100326.1	1	Chassis Harness
084	100327.1	1	Wiring Harness, Body Electrical
085	100091.1	1	Battery Switch, Master Disconnect, CH, Rotary
086	100092.1	1	NO -- Battery Charger
087	203897.1	1	120v Power Provisions
088	204322.1	1	Blue Sea Shoreline
089	100328.1	1	Clearance Lights, LED, DOT
090	100329.1	1	License Plate, Mount, Lighting
091	100330.1	1	Stop/Tail/Turn Lights, Whelen M6BTT/M6FC
092	100331.1	1	Back up Lights, Whelen M6 Series, LED,

093	100096.1	1	Trailer Hitch Power Plug, 12V, 7 Prong
094	100067.1	1	NO -- Off Road Lights
095	100070.1	1	No -- Bumper Ground Lights
096	200312.1	1	Ground Lights, Cab, 4 Door, LED STRIPS
097	203456.1	1	NO -- Rear Ground Lights
098	100184.1	1	Body Work Lights, LED, (4), Grote #63871
099	100317.1	1	NO -- Front Scene Lights
100	100321.2	1	Scene Light, (4) Rigid Dually
101	100104.1	1	NO -- GPS
102	100107.1	1	Back-Up Camera, Rear View Safety, (1) camera
103	100099.1	1	Radio, Fire, Installation, Purchaser Supplied
104	100620.1	1	Radio, Fire, Installation, Purchaser Supplied - Antenna Only
105	100101.1	1	NO -- Intercom System
106	100324.1	1	Back Up Alarm
107	203773.1	1	Whelen Cencom Carbide, Electronic Siren
108	100313.1	1	Speaker, Whelen, #SA315P, 100 Watt
109	100310.1	1	Lightbar Mounting, Headache Rack, Alum, Enclosure Protection
110	100309.1	1	Lightbar, Whelen, Legacy, 54"
111	204356.1	1	Warning Lights, Whelen, IONSMR (8) Lights
112	100336.1	1	NO -- Door Emblem
113	203904.1	1	No Cab Roof Lettering
114	100338.1	1	Stripe, Cab/Body, Triple Reflective, 1" x 4" x 1"
115	100340.1	1	NO -- Keep Back Lettering
116	100342.1	1	NO -- Front Bumper Chevron
117	100344.1	1	NO -- Rear Chevrons
118	100346.1	1	Capacities Placard, Reflective
119	100347.1	1	NO -- Nozzles
120	100349.1	1	NO -- Spanner Set
121	100388.2	1	Suction Hose
122	100389.1	1	Barrel Suction Strainer
123	100421.2	4	SCBA Brackets
124	204330.1	1	NO -- NFPA Speed Restriction
125	100040.1	1	Chassis Prep, Commercial Chassis
126	100041.1	1	Label Seating (Based upon # of Seated Positions)
127	100043.1	1	Label, Noise Danger, Personnel
128	100135.1	1	Label, Data, "Do Not Ride On Rear Step"
129	100196.1	1	Final Assembly, Skeeter Brush Trucks, Hillsboro, TX
130	100361.1	1	Operational Pump Test, SBT
131	100362.1	1	12V Electrical Load Analysis
132	100363.1	1	NFPA Certificate
133	100365.1	1	Road Test, 10 miles
134	100366.1	1	Skeeter Warranty, 5-Year Parts & Labor, 10-Year Body Integrity
135	100369.1	1	Tank Warranty, Limited Lifetime
136	100351.1	1	Pre-Construction Conference
137	100651.1	1	Apparatus Drawings
138	100353.1	1	Payment Terms, 100% on Delivery and Acceptance
139	204229.1	1	Final Inspection, Skeeter
140	100356.1	1	Training, Factory Supplied, Factory location
141	100358.1	1	Delivery, Purchaser Pickup

SKEETER BRUSH TRUCKS, LLC – LIMITED WARRANTY

LIMITED WARRANTY: Subject to the limitations and exclusion set forth below, Skeeter Brush Trucks, LLC (“Skeeter”) provides the following warranty:

Skeeter warrants the body, storage compartments, plumbing and other components built and assembled by Skeeter from defects in material and workmanship for a period of 5 years from the date the apparatus is invoiced to Buyer. Skeeter warrants the structural integrity of the body for a period of 10 years from the date the apparatus is invoiced to Buyer.

This limited warranty applies only if the apparatus body is maintained in accordance with Skeeter maintenance instructions and manuals and is used in service which is normal to the particular body placed on the chassis. Normal service means service which does not subject the body to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, Buyer must notify Skeeter within 30 days after discovery, but in any event prior to the expiration of the warranty period.

Notwithstanding anything to the contrary herein, Skeeter makes no warranty with respect to any components, attachments or trade accessories, which are not built by Skeeter, including, but not limited to, the chassis, engine, driveline, axles, water pump, hose reel, water turrets/nozzles or tank; with respect to all such parts, components, attachments and accessories, Skeeter assigns to Buyer the applicable warranties, if any, provided by those manufacturers.

Buyer acknowledges Skeeter builds, assembles and installs the apparatus body only. All issues involving the underlying chassis are handled by the chassis manufacturer and subject to the terms and conditions of chassis manufacturer warranty.

This warranty may be voided by Buyer in part or its entirety if the product is repaired or replaced (a) without prior approval from Skeeter or (b) at a facility, which has not been approved in writing in advance by Skeeter.

THE WARRANTY SET FORTH ABOVE IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY SKEETER. SKEETER DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MECHANTABILITY, ANY

WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

If the body fails to conform to the warranty above during the warranty period, and such nonconformity is not due to misuse, neglect, accident, or improper maintenance, Buyer must notify Skeeter within the time period and shall make the product available for inspection by Skeeter or its designated agent. At the request of Skeeter any allegedly defective product shall be returned to Skeeter by Buyer for examination and repair. Buyer shall be responsible for the cost of such transportation and risk of such loss of or damage to the product during transportation. Within a reasonable time, Skeeter shall repair or replace (at Skeeter’s option and expense) any nonconforming or defective parts. Repair or replacement shall be made by a facility approved in writing in advance by Skeeter. **THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY SUCH BREACH OF WARRANTY.**

Notwithstanding anything to the contrary or any agreement between Skeeter and Buyer, IN NO EVENT SHALL SKEETER BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO PRODUCTS SOLD BY SKEETER, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER SKEETER HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Skeeter specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.



Warranty Policies and Procedures

WARRANTIES

All manufacturers' warranties assume that the vehicle is properly maintained and used in service, which is normal to the particular vehicle. Normal service means service that does not subject the vehicle to stresses or impacts greater than normal results from the careful use of the vehicle or chassis. All warranties are provided by the vehicle or component manufacturer not Hughes Fire Equipment, Inc.

Manufacturer's warranties are subject to the terms at which the vehicle/component was delivered. For specifics, please refer to the Manufacturer Warranty included in the selling documents provided at the time of sale.

Manufacturer's Warranty*

Pierce Manufacturing, BME Fire Trucks, EJ Metals, Life Line Emergency Vehicles, and Skeeter Brush Trucks, through Hughes Fire Equipment, provide Manufacturer's warranties that warrants against defects in product and workmanship. This limited Manufacturer warranty shall apply only if the vehicle is properly maintained and used in service, which is normal to the particular vehicle.

Component Warranty*

Manufacturer warranties provided by individual manufactures other than Pierce Manufacturing, BME Fire Trucks, EJ Metals, Life Line Emergency Vehicles, and Skeeter Brush Trucks, may apply.

MANUFACTURER WARRANTY START DATE

New vehicle Manufacturer warranty start date is based on the delivery of the new apparatus.

Vehicle Warranty start date begins:

Upon leaving the factory for Pierce Manufacturing, BME Fire Trucks, EJ Metals, Life Line Emergency Vehicles, and Skeeter Brush Trucks. Pierce Manufacturing, Inc. however, may provide a 60-day grace period after leaving the factory to put the unit in service.

PRE-AUTHORIZATION

Pre-authorization is required for all Manufacturer warranty repairs. If the unit is within the one year Manufacturer warranty and a warranty issue occurs which is a defect in product, workmanship, or design, we will file the repair under the provisions of the applicable warranty.

In some cases, we may not be able to determine if a repair is warranted until a defective part is reviewed by the manufacturer to determine the cause of failure. Items may not be warranted until the cause has been determined.

In cases of discovery within the Manufacturer warranty period, and risk of completion exists outside of the terms of the warranty period, Hughes Fire Equipment must be notified in writing of the failure date before the manufacturer warranty period expires.

Hughes Fire Equipment's *Service Manager* must be notified for pre-authorization for all Manufacturer warranty repairs. In most cases, a Hughes Service Technician will be dispatched to provide any and all warranty work. This will be determined on a case by case basis by the Hughes Service Manager. Please contact the Hughes Service Manager if you have any questions about a current or pending warranty.

In some cases, suppliers of components may offer warranties beyond the Pierce Manufacturing, BME Fire Trucks, EJ Metals, Life Line Emergency Vehicles, or Skeeter Brush Trucks Warranty. When cases where a supplier offers a warranty longer than the Pierce Manufacturing, BME Fire Trucks, EJ Metals, Life Line Emergency Vehicles, or Skeeter Brush Trucks, stated warranty, we must contact the supplier directly for their support. The terms of the supplier warranty shall apply. Failure to follow

supplier's warranty procedures may nullify warranty coverage for that part or Service. Please contact our *Service Manager* for more information. Certain component warranties are to be handled directly with the component manufacturer such as engine, transmission, drive-train, commercial chassis, etc.

TROUBLESHOOTING

Reimbursement for troubleshooting by a manufacturer is governed by the manufacturer's rules. It is suggested that Hughes Fire Equipment's service manager be notified before two (2) hours of troubleshooting is expended on the diagnosis of a problem. Hughes Fire Equipment technicians are not authorized to make Manufacturer warranty decisions. Authorization may be given to continue troubleshooting or the trouble may be referred to the supplier for assistance. This will ensure timely repairs as well as keeping costs down.

NOTE: Diagnosis in excess of 2 hours may be the responsibility of the customer.

EXCESSIVE TIME TO REPAIR

The Manufacturer reserves the right to dispute repair times that are beyond normal time allowances.

RETURN OF DEFECTIVE PARTS

If parts used in the repair of an apparatus are required to be returned by the Manufacturer and the customer provided necessary repairs for Hughes Fire Equipment, the customer will receive notification. Customers will be invoiced for all parts whether warranty or aftermarket. Customers have 30 days to return the defective component after the repair or the warranty claim may be rejected by the Manufacturer and no credit will be given for part(s). Labor may or may not be covered.

If you work directly through a supplier and not Hughes Fire Equipment, you may be liable to cover the replacement costs. Hughes Fire Equipment is not liable for non-returned parts or labor if you choose to contact the supplier directly.

When sending parts back, parts must be tagged with a job number along with a copy of the repairs stating the complaint, the cause and the correction.

SUPPLIER REPAIRS

Refer major component supplier warranty problems directly to the supplier to determine if it is a supplier problem. Major component supplier's include, but are not limited to, axle, engine, transmission, and commercial chassis suppliers. Failure to follow the supplier's guidelines may void warranty coverage.

If it is a major component supplier-related problem, the supplier will repair the defective part and handle all necessary paperwork. Neither Hughes Fire Equipment nor Pierce should be invoiced for work performed when it is a major supplier's failure.

If it is a Pierce Manufacturing, BME Fire Trucks, EJ Metals, Life Line Emergency Vehicles, or Skeeter Brush Trucks, related problem, the supplier may, with pre-approval from Hughes Fire Equipment Service Manager and/or the Manufacturer, make the repairs and invoice Hughes Fire Equipment directly or refer the unit back to Hughes Fire Equipment for repair. If you do not get a timely response from a supplier, please contact Hughes Fire Equipment Service Manager immediately and we will assist in getting a resolution of the problem from the supplier for you.

SUBLET LABOR

Fire departments and municipalities that wish to perform their own minor warranty repairs may do so only with pre-approval from Hughes Fire Equipment.



All approved sublet warranty work that is reimbursed by the manufacturer will be paid as a credit on their Hughes Fire Equipment's customer account. The credit may be used against outstanding or future invoices.

SUBLET LABOR (CONT.)

Fire departments or municipalities that prefer to have a check issued for the reimbursed sublet warranty work will need to submit a request in writing via email, fax, or mail to Hughes Fire Equipment after they have received the credit memo. The request should state that a check is to be sent in lieu of the credit and contain the name of the person requesting the check.

REJECTED WARRANTY ITEMS

- Some of the major reasons for claim and part rejection are listed below:
- Additional service work requested by the owner over and above that necessary to satisfy the Manufacturer warranty obligation
 - Adjustments, routine maintenance and lubrication
 - Job time excessive or job overlapped
 - Labor or parts out of specified Manufacturer warranty period
 - Labor is not allowed for repairs on products that have been subject to misuse, accident, neglect or alteration
 - Labor for a modification that is not our standard, or proposed, in order to satisfy customer for acceptance
 - Commercial chassis or vendor warranty parts and labor
 - Additional testing or training not specified

Other general reasons for a claim rejection are:

- Out of Manufacturer warranty period
- Not from model and/or serial number designated
- Manufacturer warranty valid only to original owner
- Insufficient information provided to substantiate failure or return
- Damaged in shipment; submit claim to carrier
- Lack of maintenance (this is the customer's responsibility)
- Damaged by insufficient lubrication
- Damaged from improper operation or abuse
- Damaged during removal or installation by sales representative/customer
- Damage caused by lack of water
- Damage from hitting solid objects
- Damage caused by reversing battery leads
- Damage caused by foreign material

Pre-delivery and maintenance items not covered by Manufacturer warranty include cleaning, lubrication and adjustment of:

- Transfer valve controls and switches
- Relief valve micro switch
- Door locks, ladder locks, mirrors, and equipment holding devices
- Valve guides and controls
- Primer and drain controls
- Loose wiring, door switches or connectors
- Loose screws, fittings, lights, etc
- Belt tension
- Gauge calibration
- Relief or dump valve setting

Hughes Fire Equipment, Inc.

Authorized Representative

Printed Name/Title

Date

Also not covered is replacing:

- Lost tags and knobs
- Light bulbs
- Equipment lost or stolen
- Broken lenses and windshields
- Tire, road hazards
- Wheels - due to loose lug nuts
- Lubricant or anti-freeze
- Service call or Hazmat disposal charges
- Resetting of circuit breakers
- Replacement of fuses

Finally, damage resulting from lack of any of the following is also not covered under Manufacturer warranty:

- Proper air pressure
- Coolant
- Lubricant
- Maintenance

TIMING FOR SUBMITTING A MANUFACTURER WARRANTY REIMBURSEMENT FORM

The failure date must have occurred within the Manufacturer warranty period for the problem to be covered by warranty. Please refer to the specific Manufacturer warranty for your vehicle.

Failure identification to completion of the work must be no more than 30 days. Completion of work to submission of claim must also be no more than 30 days.

In cases where the unit is not out of service, completion of the work may be more than 30 days but should be within a reasonable time frame. If the completion of the work will not occur within the Manufacturer warranty period, Hughes must be notified of the failure date and intended date for completion of the work before the Manufacturer warranty period expires.

CRITERIA FOR DETERMINING TRUCKS AS "OUT OF SERVICE"

Trucks that are unable to safely respond to a scene or perform required operation of the pump or aerial device due to a mechanical or electrical malfunction.

Trucks NOT considered "out of service" (trucks experiencing non-critical issues that do not affect the ability to respond to a scene):

- trucks taken out of service for scheduled maintenance or repairs
- minor cab or body damage
- missing compartment doors
- broken window
- air conditioning malfunction
- paint, corrosion, or graphics (non-safety related)
- cosmetic issues (missing wheel covers, etc)
- non-safety related lighting
- customer add-on equipment
- minor oil leaks

Customer

Authorized Representative

Printed Name/Title

Date

Skeeter **Brush Trucks**

**Accept
No
Imitations**



Wildland and Specialty Apparatus Built for the 21st Century



www.SkeeterBrushTrucks.com

Ready for Anything



Type 5/6 Wildland Engines

- 100+ Cubic Feet of Storage Space
- 6" 4 Link Suspension Lift
- Military Grade Super Single Tires
- 4 Fully Customizable Body Styles

Type 3/4 Wildland Engines

- Auxiliary or PTO Pump Capable
- Engineered for 4x4 or 6x6 Chassis
- Single-Operator Pump & Roll Capable
- 3 Fully Customizable Body Styles

Type 2 Tactical Tenders

- Custom Cab & Body Protection "Exoskeleton"
- Both PTO and Auxiliary Pumps Available
- Dual Foam System Capable
- Tank Capacities up to 2000 gal.

Medium-Duty Rescues

- Fully Transverse Compartments
- Air Cascade Capable
- Available in Both Dry or Wet Configurations
- Ideal for multi-role assignments

Special Application Vehicles

- Absolute Unlimited Customization
- Designs available on any size chassis
- Ideal for Disaster Response and Task Force
- Proven on state and national deployments

The Best, Built by the Best.

Created by a Dedicated Team

- In-house engineers verify fitment, weight and performance of each apparatus and its components.



- Skilled fabricators build each body to strict tolerances to ensure the longest possible life-span.

- Knowledgeable chassis technicians install lift/suspension components, bumpers and custom poly consoles in preparation for the body's fitting.



- Dedicated assembly techs ensure every element from tanks and pumps to lights and accessories is fitted properly.



- Experienced QC department checks each element of the apparatus spec for fit and function before customer final inspection.

www.SkeeterBrushTrucks.com

Tested and Trusted

NATC Results: Meets or Exceeds NFPA 1901 & 1906 Requirements

- Tilt Table Testing
- Acceleration and Braking Trials
- Pump Testing and Certification
- Plumbing Inspection and Testing



Unmatched Warranty & Service

- Over 75 Service Centers Nationwide
- 100s of Mobile Techs Ready to Respond
- 5 Year Parts & Labor Warranty on all Skeeter Brush Trucks manufactured components
- 10 Year Structural Warranty on every Skeeter Brush Trucks body

State of the Art Manufacturing Facilities

- Dedicated Fabrication, Chassis Prep and Assembly buildings
- On-Site Parts Warehouse keeps vital inventory readily available for new builds and customer warranty needs.
- Implementation of leading manufacturing practices maintains efficient workflow and maximizes factory performance.



#SkeeterInAction



Trusted by over 500 departments across the nation to best serve their communities!



From wildland engines to medium-duty rescues and specialized multi-roll trucks, Skeeter Brush Trucks engineers apparatus to meet the unique challenges each department faces.

Photos Shown Courtesy of:

Oklahoma Emergency Fire Photography, Folsom Fire Dept, Incident Command Photography, Polk Co. Fire Rescue, South Callaway FPD, and Cash VFD

Skeeter ***Brush Trucks***



888-228-9335

105 Industrial Loop
Hillsboro, TX USA 76645

www.SkeeterBrushTrucks.com

@SkeeterBrushTrucks



Skeeter **Brush Trucks**



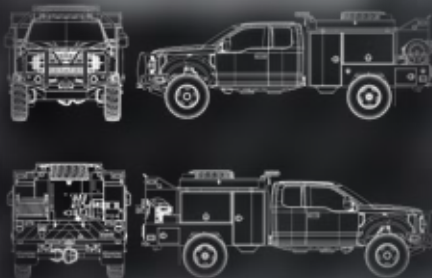
Type 5/6 Wildland Engines ***Built for the 21st Century***

Fully customizable from bumper to bumper, Skeeter Brush Trucks are capable of meeting your most challenging needs on the fireline. The limitless options for chassis, compartments, lighting and many other items mean an end product that is optimized for the specific challenges you face. Our unparalleled 6" lift and 4 link suspension will take your crews and capabilities to areas that were unreachable before. This increased wheel travel, combined with our super-single tire conversion, allows for increased off-road performance without compromising ride quality. Trust the engineering-based process at Skeeter Brush Trucks to create the ideal apparatus for your agency!

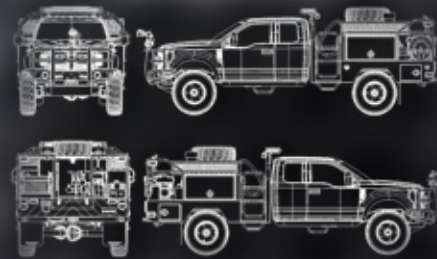
Flat-Bed



Rescue-Side



Step-Side



www.SkeeterBrushTrucks.com



Type 5/6 Wildland Engines



- Custom poly consoles offer the most ergonomic integration of driver-operated components.



- Choose from all major brands of gas or diesel pumps with options to tie into chassis fuel.



- Ensure maximum pump performance with a fully custom manifold tailored to each truck.



- Custom poly inserts allow versatile use of space for EMS bags, SCBAs or other gear.



- Increase situational awareness with available IR and visual spectrum camera systems.



- Our signature custom, aluminum bumper provides increased protection and storage.



- The addition of a hard mount or portable winch allows for rescue or self recovery if necessary.

- Choose from multiple cab and chassis models from all major manufacturers.

Built to Serve. Built to Last.



- Each build engineered and analyzed prior to fabrication
- Manufactured in accordance with state-of-the-art industry practices and methods
- Over 75 Service Centers nationwide with 100s of Mobile Techs ready to respond
- 5 Year Parts & Labor Warranty on all Skeeter Brush Trucks components

SkeeterBrushTrucks



www.SkeeterBrushTrucks.com



201 Cercon Dr.
Hillsboro, Tx, 76645
Office: 888-228-9335
Fax: 210-662-2930

Hughes Fire Equipment is the sole source dealer for Skeeter Brush trucks in Oregon, Washington, Hawaii, Idaho, Montana, Arizona, Alaska, and Clark Co Nevada. Hughes Fire Equipment's corporate headquarters is 910 Shelby St, Springfield, Or. 97477. Their main phone number is 800-747-6510.

Skeeter designs bodies for a 20-year front line service life, and a 10-year additional remount life (30-year design expectancy). Skeeter is the only manufacturer to rate their bodies for two mounting cycles, as well as a 30-year life expectancy.

Skeeter custom bodies are all aluminum custom-built bodies using aerospace quality welds. They are fully engineered by our resident engineers. They are specifically designed for off-road use fighting fire while carrying water.

Skeeter Brush Trucks suspension systems are specifically designed for Class 3 through 6. We use 6" four link systems, with coil over shocks, designed specifically for our weights, GVW's and end usage. They are not pick-up truck lifts that are not designed for heavy commercial use. Skeeter is the only manufacturer to manufacture/use suspension systems specifically designed and engineered for recertification of the chassis for off-road use.

Skeeter designs suspensions and chassis modifications to re-certify OEM chassis for an 80% off-road duty cycle (as opposed to less than 20% on a stock truck). Skeeter is the only manufacturer to re-rate the chassis for off-road service.

Skeeter builds all our consoles in house from poly or aluminum to the customer's requirements.

Skeeter builds all our plumbing and manifolds in house from Tig welded stainless steel to the customer's requirements.

Skeeter builds all our wiring harnesses as stand-alone systems (not reliant on the chassis harness). They are built to OEM and SAE standards.

Skeeter custom fire apparatus bodies are designed for a 20 year service life, followed by a new chassis remount, and a further 10 year life expectancy.

Skeeter has a 5-year unlimited mileage warranty on any item we manufacture or directly modify (plumbing, suspension, electrical, etc). This is exceeded by our ten-year specific body warranty. Individual components are warranties vary by manufacturer. Skeeter is the only manufacturer to offer a 5-year standard warranty.

Thank you,



Bill Davidson,

Vice President, Sales

201 Cercon Dr.

Hillsboro, Tx, 76645

Office: 888-228-9335 -- Cell: 210-313-4924

Fax: 210-662-2930

Email: bill.davidson@skeeterbrushtrucks.com

www.skeeterbrushtrucks.com



History:

The Hughes family has been in the fire apparatus sales and service business since 1979. Hughes Fire Equipment, Inc. was incorporated in 1987 as a dealer representative of Pierce Manufacturing, Inc. Hughes Fire Equipment, Inc. has delivered firefighting, rescue, and ambulance apparatus to emergency service organizations throughout the Pacific Northwest. With a large number of these units still in service, many for over 20 years, it is apparent that **quality, reliability and dependability** are important to us and are provided in each and every unit we delivery.

Our Goal:

To provide the lowest apparatus "lifetime cost" to our customers through partnerships with apparatus manufacturers that are the quality leaders in their respective fields and with superior local service.

Sales Coverage:

Hughes Fire Equipment, Inc. is an authorized dealer representative for Pierce Manufacturing, Inc., BME Fire Trucks, Life Line Emergency Vehicles, E.J. Metals, and Skeeter Brush Trucks. We provide sales and support for these products in Alaska, Arizona, Clark County of Nevada, Hawaii, Idaho, Montana, Oregon and Washington.

Service Facilities:

Service for Oregon is provided through our corporate facility located in Springfield, Oregon with regional facilities in Albany and Portland.

Service for Washington is provided though our facility in Tacoma, Washington, with regional facilities in Mt Vernon, WA and West Richland, WA.

Service for Idaho is provided through our newest facility in Meridian, Idaho.

Service for Alaska and Montana is provided through our corporate facility in Oregon via on-site road service. Service for Arizona and Nevada is provided through our regional facility in Phoenix, Arizona.

All facilities have technicians that are factory trained as well as ASE and EVT certified.

Our headquarters facility in Springfield, OR is 13,000 square feet with five bays and in-ground pump testing.

Our facility in Phoenix, Arizona is 15,000 square feet with five bays.

Our facility in Tacoma, Washington is 13,500 square feet with six bays.

Our facility in Meridian, Idaho is 15,339 square feet with fourteen bays.

Our facility in Portland, Oregon is 2,500 square feet with three bays.

Our facility in Albany, Oregon is 2,500 square feet with two bays.

Our facility in West Richland, Washington is 1,600 square feet with two bays.

Our facility in Mt Vernon, Washington is 10,000 square feet with four bays.

Hughes has full-time field service technicians based out of Everett, WA, Las Vegas, NV, Tucson, AZ, and Honolulu, Hi.

We have two contracted service facilities, one in Wailuku, Hawaii and one in Kapolei, Hawaii.

Also, we carry over \$1,000,000.00 in inventory available to ship from our service locations.

All Hughes facilities offer factory trained and ASE/EVT certified technicians to provide warranty service for Pierce products as well as general service for all other brands. Our services also include NFPA 1911 compliant Annual Inspections.

In an effort to reduce your equipment downtime and labor costs we can often bring our service to you. Connect with our service team from parts to maintenance to repairs. All service facilities include **mobile service** vehicles for warranty or routine maintenance. We also offer mobile pump testing.



HUGHES FIRE EQUIPMENT, INC.

PROUDLY SERVING YOU,
WHILE YOU SERVE YOUR COMMUNITY
SINCE 1987

Serving Alaska, Arizona, Hawaii, Idaho, Montana,
Clark County in Nevada, Oregon, and Washington

WWW.HUGHESFIRE.COM | 1-800-747-6510



The Hughes Fire Equipment, Inc. family is dedicated to providing fire departments with high quality fire apparatus and emergency rescue vehicles.

We work for our customers to ensure they have what they need to serve their communities safely and efficiently.

Pierce Mfg

Skeeter Brush Trucks

**Life Line Emergency
Vehicles**

Dräger Fire

**Emergency Technical
Decon**

**Frontline
Communications**

EJ Metals

BME Firetrucks

Brindlee Mountain

**PROUD
PARTNERSHIPS
WITH THE TOP
NAMES
IN THE INDUSTRY**

A background image of intense, orange and yellow flames rising from the bottom, filling the lower half of the page. The text is overlaid on this image in a large, bold, black font.

ABOUT HFE

Quality. Innovation. Safety.

1. Singularly unique in the industry.

We listen to our customers input.

The word 'partnership' is most often shallowly used. HFE has chosen to hold that term sacred - it drives us to provide uncommon services for unique and challenging situations.

2. We take "Post Sale Support" seriously.

We invest in our people, our brick and mortar facilities, and our willingness and ability to bring service support directly to our customers in the form of mobile services.

Our main goal is to minimize out-of-service time, keeping those who are so critical to our communities ready and in-service.

3. Award winning sales staff.

- 15+ Sales Representatives
- Covering over 1 million square miles
- Representing 9 product lines
- Product knowledge experts
- Sales achievement recognition in the industry
- Sales staff with collectively over 625+ years of experience in the industry
- 10+ Sales Support Staff

4. Best in the business service.

- 8 Service Locations - adding more Yearly
- 40+ Service Technicians
- Over 500 ASE, EVT, Drager, Pierce Master Certificate, and other manufacturer certifications
- 12+ Service Support Staff
- 7+ Parts Representatives
- +\$12 Million of inventory on hand
- Over 16 Mobile Service Vehicles

SERVICE IS OUR BACKBONE

Maintenance

- Onsite Oil & Fluid Changes
- Maintenance Tracking
- ALL Preventative Maintenance
- ALL Pump Service Needs (Pierce Ultimate Configuration, Darley, Hale, & Waterous)

Testing & Inspection

- Mobile Pump Testing
- On-Site Services
- Command Zone Inspection / Repairs
- Side Rollover Protection Diagnostics
- TAK-4 Inspection & Adjustments
- Chassis Inspection / Repairs
- Ladder Testing
- SCBA Fit & Flow Testing
- Gas Detection Calibration

Repairs

- Warranty
- Pump Service & Repairs
- Suspension Repairs
- Transmission Services
- Diesel Services
- Brake Repairs

Upgrades

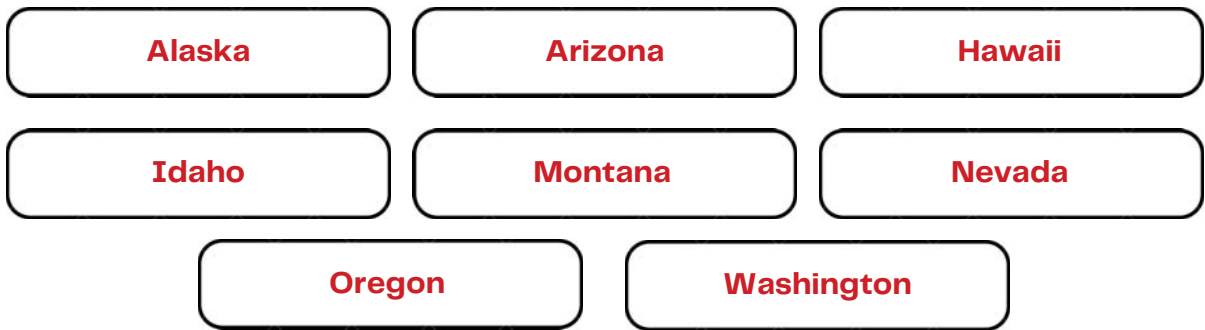
- Idle Reduction Technology
- Tower Upgrades / Installs
- LED Lighting Upgrades
- Generator & Light Equipment Installation
- Lighting and Siren Installations
- Modifications & Refurbishments



HUGHES FIRE EQUIPMENT, INC SERVICE CENTERS

In addition to our full-service fire apparatus centers, we are pleased to provide on-site mobile service. This includes 24/7 emergency availability.

Our ASE, EVT, Dräger Trained, and Pierce Master Certified Technicians take great pride in providing all of the service you need to keep your fleet ready.





HUGHES FIRE EQUIPMENT is proud to offer **24/7 MOBILE SERVICES**

Mobile Services Offered

- Mobile Pump Testing and Other Pump Services & Repairs
- Ladder Testing
- Oil & Fluid Changes and Other Preventative Maintenance
- TAK-4 Inspection & Adjustments
- Chassis Inspection
- Ladder Testing
- SCBA Fit & Flow Testing
- Gas Detection Calibration
- Parts Delivery

Best Service Team in the Industry

- 40+ Service Technicians
- Over 500 ASE, EVT, Drager, Pierce Master Certificate, and other manufacturer certifications
- Over 16 Mobile Service Vehicles

UPGRADES

Mobile Pump Testing
On-Site Pump Service

CZ (Command Zone)
Inspection & Troubleshooting

SRP Diagnostics
(Side Rollover Protection)

Tak-4 Inspection & Adjustment

Chassis Inspection/Repair

Ladder Testing

TESTING & INSPECTIONS

Idle Reduction Technology

Tower Upgrades/Installs

LED Lighting Upgrades

Generator & Light Equipment Installation

Lighting & Siren Installations

COMPREHENSIVE MOBILE SERVICES

REPAIRS

Warranty

Pump Service & Repairs

Suspension Repair

Transmission Service

Diesel Service

Brake Repair

1-800-747-6510

www.hughesfire.com

Serving Alaska, Arizona, Clark County-Nevada,
Hawaii, Idaho, Montana, Oregon, and Washington



24 / 7

MOBILE ON SITE, ON CALL SERVICE

On-site Oil & Fluid Changes

ALL Preventative Maintenance
Needs & Inspections from
Minor to Annual Services.

Maintenance Tracking

ALL Pump Service Needs
(Pierce® Ultimate Configuration, Darley,
Waterous)

MAINTENANCE



Hughes Fire Equipment, Inc. Contact Information

For afterhours emergency please call 800-747-6510 press "9" and leave your message. Your message will be sent to the person on call within 5 to 10 minutes. If you do not get a response in a reasonable time, please call one of the following numbers:

For specific sales territory coverage, locate the **Find Your Sales Rep** heading found on our website or click here: <https://www.hughesfire.com/sales>. Then select your state, sorted alpha by city.

Sales

Dan Hays: VP & Sales Rep., WA
Cell: 206-910-4789
dhays@hughesfire.com

Sheri Taylor: VP Contract Admin
Office: 541-747-0072
staylor@hughesfire.com

Dean Stock: Business Analyst
Office: 541-747-0072 (212)
dstock@hughesfire.com

Andy Klein: Sales, AK/WA
Cell: 360-450-7264
aklein@hughesfire.com

Andy Siebers: Sales, ID/MT/WA
Cell: 509-822-1703
asiebers@hughesfire.com

Chris Callies: Sales, AZ
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