

**Town of Wilton
Request for Proposals**

It is the intent of the East Dixfield Fire Department / Town of Wilton / Town of Dixfield (purchaser) to purchase a fire apparatus as outlined in the following requirements.

Proposals are due back August 16th at 11:00 AM. They may be submitted in person, via email, or mailed to:

Maria Greeley
Town of Wilton
158 Weld Road
Wilton, ME 04294
mgreeley@wiltonmaine.org

For further information, please contact Randy Hall, East Dixfield Fire Chief – 207-860-8431 or email: edfdchief@hotmail.com

The Town of Wilton reserves the right to reject any or all bids or to negotiate the final specifications, or to accept the bid determined to be the most advantageous to the Town and the collaboration with East Dixfield Fire Department and Town of Dixfield. Bids will be reviewed with the Fire Chief of Wilton, East Dixfield and Dixfield. All bidders will be notified of the final decision.

Updated:

July 29, 2024

REQUEST FOR PROPOSAL MINI PUMPER FIRE APPARATUS

SCOPE AND GENERAL REQUIREMENTS

It is the intent of the East Dixfield Fire Department / Town of Wilton / Town of Dixfield (purchaser) to purchase a fire apparatus as outlined in the following requirements.

All specifications shall be construed as a minimum. Should the manufacturer's current published data or specifications exceed these, they shall be considered minimum and be furnished.

The manufacturer will provide a new fire apparatus designed to withstand the continuous use encountered in the emergency fire-fighting service. The apparatus shall be of the latest type, symmetrically proportioned and constructed with due consideration of the load to be sustained.

All parts not specifically mentioned herein, but which are necessary in order to furnish a complete fire apparatus, shall be furnished and shall conform to the best practices known to the fire apparatus industry. Any discrepancies or upgrades to the minimum required components shall be clearly indicated.

The unit is to be of current year manufacture and is to be new and unused. The bid price shall not include any local, State, or Federal taxes

BIDDER

Bids are requested from responsible manufacturers who are engaged in the manufacture of fire apparatus. To insure reliable and complete acceptance of the apparatus, bidder shall have been in operation for a minimum of twenty (20) years in the manufacturing of fire apparatus.

The manufacturer of the apparatus must be fully owned and managed by a Parent Company, Corporation, or Individual(s) that is 100% held by United States of America based Company, Corporation, or United States citizen(s). The manufacturer shall identify the location of their facility.

If the manufacturer of the apparatus, or if any owner, shareholder, or immediate relative of an owner or shareholder that has previously been involved in or held ownership in any company that has filed bankruptcy or any other type of reorganization plan, it must be clearly stated in the bid proposal. The statement must include details and dates of all occurrences.

FAMA COMPLIANCE

The apparatus manufacturer must be a current member of the Fire Apparatus Manufacturer's Association (FAMA) and must provide a certificate of membership.

FAIR, ETHICAL AND LEGAL COMPETITION

In order to ensure fair, ethical, and legal competition the apparatus manufacturer shall never been fined or convicted of price fixing, bid rigging, or collusion in any domestic or international fire apparatus market.

PROPRIETARY PARTS

It is the intention of the purchaser for all bidders to furnish the apparatus with major parts commonly used by the heavy-duty truck manufacturers and open market vendors whereas replacement parts are more readily available and at reduced cost. The use of proprietary parts may not be acceptable to the purchaser.

PRODUCT QUALITY AND WORKMANSHIP

The components provided and workmanship performed shall be of the highest quality available for this application. Special consideration shall be given to the following areas:

- A). Accessibility to various components that require periodic maintenance or lubrication checks.
- B). Ease of vehicle and pump operation.
- C). Features beneficial to the intended operation of the apparatus.

Construction of the complete apparatus shall be designed to carry the loads intended to meet the road and terrain conditions and speed requirements desired when specified by the purchaser.

Welding shall not be employed in the assembly of the apparatus in a manner that will prevent the removal of any major component part for service and/or repair.

INSURANCE REQUIREMENTS

Each bidder must submit with their bid proposal a Certificate of Insurance listing the proposed manufacturer's product liability insurance coverage. Liability insurance shall be a minimum amount of ten (10) million dollars. Submitted certificate shall name the apparatus manufacturer, insurance company, policy number, and effective dates of the insurance policy. Bids submitted without the required certificate will be considered nonresponsive and automatically rejected. No exceptions are allowed to the minimum insurance coverage requirement.

The manufacturer shall maintain full insurance coverage on the purchaser's cab and chassis from the time of first possession by the manufacturer until the apparatus is delivered and accepted by the purchaser (No Exceptions). The purchaser reserves the right to require proof of insurance from the manufacturer's insurance carrier prior to entering into a contract for the apparatus.

PAYMENT TERMS

Terms of payment, including any required downpayment, shall be clearly stated in the proposal.

VEHICLE ACCEPTANCE AND DELIVERY

Acceptance and delivery requirements shall be clearly stated in the proposal.

FUEL TANK FILLED AT DELIVERY

The fuel tank and DEF tank (if applicable) shall be filled upon final delivery.

APPARATUS DIMENSIONS

OVERALL HEIGHT

The overall height shall be less than 96.00" (8').

OVERALL LENGTH

The overall length shall be no longer than 26.00'.

OVERALL WIDTH

The overall width of the body shall be equal to, or less than, 96.00" (8') wide; chassis mirrors may extend out past this width.

OVERALL HEIGHT, LENGTH, GVW DATA PLAQUE

A "high visibility" plate shall be permanently mounted in the cab, visible to driver when seated; it shall show the overall height of the completed apparatus in feet and inches, the overall length of the completed apparatus in feet and inches. The plate shall also show the gross vehicle weight rating (GVWR) in tons.

FAMA & NFPA REQUIRED SAFETY LABELS

The apparatus shall contain all required FAMA & NFPA safety labels, including "No Ride" label at the rear step area(s).

COMMERCIAL CHASSIS SPECIFICATION

CHASSIS

One (1) new FORD F-550 rear axle drive 4x4, dual rear wheels (DRW), four (4) door crew cab and chassis. XL Value Package; Payload Plus Upgrade Package, Skid Plate.

POWERTRAIN (99T)

- 6.7L Power Stroke V8 Turbo Diesel Engine, OHV (32-valve)
- Horsepower: 330 HP @ 2600 RPM
- Rated Torque: 825 lb.-ft. @ 2,000 rpm
- Stationary Elevated Idle Control, SEIC

SEATING CAPACITY

The front seating shall consist of two individual seats: driver & passenger with a center console for mounting of emergency radio, siren & lighting components.

The Ford factory seats shall be removed in the rear crew area (& supplied to purchaser). Two (2) SCBA style seats with ZICO EZ Lock brackets and seat riser shall be provided and installed. There will be no seat in the center position. Seats will utilize the existing shoulder safety belt system.

CENTER CONSOLE

A center console shall be located between the driver and officer's seats and shall have a mounting surface for emergency lighting switch panels and/or electronic siren control boxes within reach of the driver or officer. The rear portion of the console shall be provided with an open top storage area for notebooks or maps.

CHASSIS PAINT COLOR

The cab shall be painted a single color by the chassis manufacturer.

Color: Ford Race Red, Paint Number: PQ

RUNNING BOARDS

One (1) set of running boards shall be mounted to each side of the chassis. The running boards shall exceed the NFPA requirements for stepping surface and slip resistance

GRILLE GUARD

A winch mount grille guard shall be provided and installed on the front of the chassis. It shall be capable of mounting a winch with ratings up to 12,000 lbs.

FRONT MOUNTED WINCH

An electric winch with a 12,000 pound (5,440 kg) rated line pull shall be installed in the brush guard. The winch shall be equipped with 3/8" diameter wire rope, clevis hook and a 4-way roller fairlead. The winch shall be operated through a pendant with a handheld control.

TOWING HITCH RECEIVER

A trailer towing hitch receiver with safety chain anchors shall be installed at the rear of the apparatus.

The hitch receiver shall have a Class V rating of 16,000 pounds towing and 1,600 pounds tongue weight when used with a weight distributing hitch assembly. The receiver shall accept a 2.00" hitch. One (1) 7-prong connector with a weatherproof cover shall be supplied and mounted near the rear receiver tube.

TIRE PRESSURE MANAGEMENT

WHEEL COVERS

Each wheel shall have one (1) stainless steel wheel cover installed.

CHASSIS EXHAUST

The chassis exhaust shall be modified and relocated to the right side of the apparatus, terminating behind the rear wheel.

CHASSIS TOW HOOKS

MASTER BODY DISCONNECT SWITCH

BATTERY CONDITIONER

A Kussmaul battery conditioner shall be supplied. The battery conditioner shall provide a 40 amp output for the chassis batteries and a 20 amp output circuit for accessory loads.

BATTERY CHARGER DISPLAY/ COVER

One (1) Kussmaul model 091-55-266-YW battery charger status center/ cover (yellow in color) shall be supplied with the charger.

120 VOLT SHORELINE CONNECTION

One (1) Kussmaul, automatic, 120 volt, 20 amp shoreline disconnect shall be provided for the on board, 120 volt battery charging systems.

MATING PLUG

A Kussmaul model # 5-20P-H, 20 amp mating female cord end shall be shipped loose with the apparatus to allow the Fire Department to connect cord end to a Fire Department provided charging cord.

SHORELINE RECEPTACLE LOCATION

The shoreline receptacle shall be located on the left-hand side of the apparatus in a pre-determined location by the manufacturer.

AUXILIARY AIR COMPRESSOR

A Kussmaul 12V air compressor shall be supplied. The compressor system shall be designed to maintain the air pressure in the air system while not in use. A pressure switch shall sense air pressure drop and engage the compressor which shall run until the pressure is restored.

BACK-UP ALARM

DUAL USB PORT

PUMP, MODULE, AND RELATED ITEMS

NFPA 1901 COMPLIANT PUMP

The fire pump and related plumbing on the specified apparatus shall be installed in accordance with applicable NFPA 1901 guidelines at the time the contract was placed.

PUMP

Hale model DSD midship mounted with a rated capacity of 1500 GPM. The pump shall meet NFPA 1901 requirements.

HOSE THREADS- NST

All hose threads shall be National Standard Thread (NST) on all base threads on the apparatus intake and discharges, unless otherwise specified.

PUMP CERTIFICATION

The fire pump shall be tested to meet the flow requirements of the pump. A written certification shall be provided with the completed vehicle.

PRESSURE RELIEF VALVE-NONE

Pressure controlled by electronic governor.

U.L. TEST POINTS

Two (2) U.L. test plugs shall be mounted on the pump panel for testing of the vacuum and pressures.

MASTER PUMP DRAIN

VALVES

The valves shall be Akron Brass with stainless balls. The valves shall be bi-directional with full flow capability. The valves shall be of fixed pivot ball design with a flow pressure rating to meet NFPA-1901 standards. All 3.00" discharge valves shall be supplied with a true slow close mechanism per NFPA specifications.

INDIVIDUAL DRAINS

One (1) individual Class1 lift up drain valve shall be furnished for each 1.50" or larger discharge port and each 2.50" gated auxiliary suction.

ANODES

The fire pump shall be equipped with replaceable alloy anodes.

THERMAL RELIEF VALVE

A Hale Model TRV120 Thermal Relief Valve shall be provided on the pump

PUMP COOLER VALVE

A pump cooler valve shall be installed in the instrument panel.

SENTRY GOVERNOR PRESSURE SYSTEM

The apparatus shall be equipped with a Pressure Governor System.

HOSE BED PRECONNECT - RH SIDE

One (1) 2.50" discharge shall be plumbed to the front of the hose bed.

CROSSLAY PRE-CONNECT DISCHARGE #1

One (1) 1.75" crosslay pre-connect with a 2.00" Akron Brass valve shall be installed in the pump module above the pump.

The discharge shall be foam capable.

CROSSLAY PRE-CONNECT DISCHARGE #2

One (1) 1.75" crosslay pre-connect with a 2.00" Akron Brass valve shall be installed in the pump module above the pump.

The discharge shall be foam capable.

LED WATER LEVEL GAUGE (PUMP PANEL)

One (1) Hale model # "ITL-40B" Tank Level Gauge for indicating water level shall be installed on the pump operator's panel. The tank level gauge shall indicate the liquid level or volume on an easy to read LED display.

PUMP, MODULE, AND RELATED ITEMS**PUMP SERVICE ACCESS - CROSSLAYS**

The top third of the pump module (crosslay area) shall be crosslays shall be removable for access to the top of the pump module.

PUMP PANEL - SIDE MOUNT

The pump operator's control panel shall be located on the driver side of the apparatus. The pump enclosure side panels shall be completely removable and designed for easy access and servicing.

CROSSLAY HOSEBED

The crosslays shall be arranged on top of the pump module with the #1 crosslay toward the front of the pump house and the #2 crosslay immediately behind the first.

They shall be arranged in a double stack design with a divider in the center.

The crosslay hose bed floor shall be slotted to allow the swivels to extend up through the floor, allowing the pre-connected hoses to be pulled off either side of the apparatus without kinking the hose at the coupling connection.

Each crosslay shall be designed to have a minimum total capacity of 3.5 cubic feet as required by NFPA -1901 to accommodate a minimum of 200 feet of 1.75" fire hose.

VINYL CROSSLAY COVER

The crosslays shall be equipped with a heavy duty 18 oz. vinyl cover, with side flaps.

FOAM SYSTEM

The apparatus shall be equipped with a Hale system. The foam system shall be equipped with a Class1 Controller and a foam induction pump.

LED FOAM LEVEL GAUGE, CLASS A (PUMP PANEL)

One (1) Hale model # "ITLF-40G" tank level gauge for indicating foam level shall be installed on the pump operator's panel. The tank level gauge shall indicate the liquid level or volume on an easy-to-read LED display with a visual indicator at nine (9) precise levels, using one (1) color.

WATER TANK

Tank capacity shall be 300 US gallons.

FOAM CELL

One (1) foam cell shall be 15 US gallons.

FIRE BODY & RELATED COMPONENTS

COMPARTMENT CONFIGURATION

The compartments shall have a tested floor area load of 300 pounds and shall be properly vented.

ADJUSTABLE SHELVING TRACKS

All side body compartments be furnished with Adjustable shelving track installed.

ADJUSTABLE TRAYS

Adjustable trays shall have a rated capacity of 300-lbs. and shall be supported by a minimum of two (2) heavy-duty shelf brackets.

ROLL-UP DOORS

All body compartment doors shall be equipped with roll-up doors.

COMPARTMENT LIGHT(S)

A minimum of one (1) LED strip light shall be installed inside each compartment.

ADJUSTABLE SHELVING TRACKS

There shall be vertically mounted uni-strut shelf trac for shelving installation.

ADJUSTABLE SHELF

There shall be One (1) full depth adjustable shelf/ shelves located in each compartment.

HOSE BED STORAGE CAPACITY

The hose bed shall be designed to have a storage capacity for a minimum of 34.00 cubic feet of fire hose, with one adjustable divider with a hand grip cut-out on the trailing edge of the divider.

HOSE BED COVER WITH VELCRO FASTENERS

A heavy-duty vinyl coated nylon hose bed cover shall be provided to protect the hose load from the weather. The cover shall extend from the front of the hose bed to the rear and then extend downward to cover the exposed rear of the bed and from the left side to the right side of the hose bed.

HARD SUCTION TRAYS - LEFT SIDE

Storage capacity for two (2) 8' sections of hard suction hose.

EXTERIOR LADDER MOUNTING

Ladder storage shall have capacity for one (1) aluminum 12 ft. two-section extension ladder.

SCBA BOTTLE COMPARTMENTS

Three (3) SCBA bottle compartments shall be installed in the wheel well area of the body.

TRAFFIC ADVISER WARNING LIGHT

One rear directional light shall be surface mounted at the rear of the apparatus body.

SIDE FACING UPPER FRONT BODY SCENE LIGHTS

One (1) pair of LED scene lights shall be installed, one (1) each side of the upper front portion of the apparatus body.

REAR VISION SYSTEM

One (1) complete backup camera system shall be provided

The monitor for the rear vision system shall be mounted on the dash of the cab in easy view of the driver.

NFPA AUDIBLE AND LIGHTING WARNING PACKAGE

The following warning light package shall include all of the minimum warning light and actuation requirements for the current revision of the NFPA 1901/ 1906. The lighting as specified shall meet the requirements for both "Clearing Right of Way" and "Blocking Right of Way" which includes disabling all white warning lights when the apparatus is in "Blocking Right of Way" mode.

WARNING LIGHT FLASH PATTERN

All of the perimeter warning lights shall be set to the default NFPA flash pattern as provided by the warning light manufacturer.

LIGHTBAR

ELECTRIC SIREN AND CONTROL

ELECTRONIC SIREN SPEAKER

One (1) Whelen 100 watt speaker shall be provided.

BODY UNDERCOATING

The body underside, including the sub-frame and the inside of the wheel wells, NOT THE WHEEL WELL LINERS, shall be thoroughly coated with commercial automotive undercoat and sound deadening material to protect the body module against corrosion. The coating shall be black and shall be tested to ASTM B117 Salt Spray test for 1,000 hours at 10-mils.

PAINT COLOR

The apparatus body paint shall be "cross referenced" from the chassis paint and shall be painted to match the main chassis color as close as possible.

REFLECTIVE STRIPING

Reflective striping shall be applied to the perimeter of the truck. Size and design shall be determined by the department.

CHEVRON STRIPING

At least 50% of the rear of the unit shall be covered with Red and fluorescent Yellow-Green alternating 6.00" stripe in an inverted Chevron pattern.

LETTERING

Reflective lettering shall be applied to the cab doors at the direction of the purchaser.

LOOSE EQUIPMENT

The following items shall be provided and shipped loose with the completed apparatus at the time of delivery:

SUCTION HOSE

Two (2) 6.00" X 8' section(s) of KOCHEK, PVC type hard, suction hose shall be provided on the apparatus. The hose(s) shall be light weight type with Pyrolite, Long Handle Female x Rocker Lug Male, NST threads.

EXTENSION LADDER, 2 SECTION

One (1) 12 foot, Alco-Lite model# PEL-12, two (2) section aluminum extension Ladder shall be

supplied with the finished apparatus.

WHEEL CHOCKS

| QTY | Equipment |
|-----|--|
| 8 | 4" LDH 50' length |
| 5 | 2.5" Hose 50' length |
| 8 | 1.75" Hose 50' length |
| 1 | Akron Turbo Jet 2.5" Nozzle |
| 1 | Akron Turbo Jet 2.5" Nozzle |
| 2 | Akron Turbo Jet 1.75" Nozzle |
| 1 | #6 Fire Axe |
| 1 | Haligan |
| 1 | 8' Pike Pole |
| 1 | 4' Pike Pole |
| 3 | 30 Degree Elbow 2.5" Chrome |
| 3 | Cap for above |
| 1 | 6" NH to 4" Storz |
| 1 | 3" Elbow to 4" Storz |
| 2 | 4" Storz to 5" Storz |
| 2 | 1.5" NH to 1.5" NH Double Female |
| 2 | 2.5" NH to 2.5" NH Double Male |
| 2 | 2.5" NH Male to 1.5" NH Female |
| 2 | 2.5" NH Female to 1.5" Male |
| 1 | 4" Storz to 2.5" Maie |
| 1 | 4" Storz to 2.5" Female |
| 10 | 28" Traffic Cones |
| 1 | 1.5" NH to 1.5" NH Double Male |
| 1 | 2.5" NH to 2.5" NH Double Female |
| 1 | Kochek 6" Self leveling Floating Strainer NH |
| 1 | Alco Lite Attic Ladder |
| 1 | Kochek Triple Set (2) Spanners, (1) Hydrant w/ Mount |
| 1 | ABC 20# |
| 1 | 2 1/2 Gallon Water Can |
| 1 | 4" LDH 25' length |
| 1 | Kenwood, NX-5700 VHF Mobile Radio, 136- 174 MHz w/ Microphone & Power Cable |
| 1 | VHF 3 DB Gain Antenna |
| 1 | Installation of Equipment Listed Into Apparatus Including Chargers |
| 4 | Kenwood, NX-5200, VHF Portable Radio, Standard Key, 136-174 MHz Includes KRA-26 Antenna, KNB-L2M Battery |
| 4 | NX-5200 Vehicle Charger |

APPARATUS, APPARATUS BODY, PLUMBING, PAINT, ELECTRICAL, and Other COMPONENT WARRANTIES

All warranty durations shall be listed in the proposal.