



# Naugatuck Fire Department

41 Maple Street  
Naugatuck, CT 06770  
(203) 720-7081

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3/13/2013

The Borough of Naugatuck is seeking proposals to perform an NFPA 1912 (2011 edition) Level II refurbishment of a 1996 Pierce rescue pumper.

This pumper is presently in front line service. After refurbishment it will become a reserve engine and will respond to approximately 200 calls per year. Current incident response is close to 1,000 plus incidental driving for training and pre-incident planning. It is our intention to keep this engine in service as a reserve unit until 2021.

The engine is located at the East Side Fire Station and is available for inspection by interested vendors.

## **Performance Bond**

The successful bidder shall furnish a Performance Bond equal to one hundred (100%) percent of the total contract amount. The Performance Bond shall insure the prompt and complete performance of any contract entered resulting from the award of this bid.

## **Contingency fund**

A contingency fund in the amount 10% of the bid shall be included to cover unanticipated items such as defective or worn components and parts discovered during the refurbishment. Contingency expenses must be approved in writing by the Fire Chief.

## **Description of pumper**

A 1996 Pierce Dash custom pumper with a steel pumper\rescue body, 1000 GPM Waterous pump, 500 gallon poly tank and a 50 gallon class B foam tank with educator. Foam is only discharged through the front bumper line. Vehicle has approximately 76,000 road miles.

Motor is a Detroit Diesel Series 60, 12.7 liter displacement, model 60676GK60 with approximately 7,000 hours, inspected by Atlantic Detroit Diesel on 2/27/13. Recommendations included in item 6.

Allison transmission, model HT-740. Transmission inspected by Atlantic Detroit Diesel on 2/27/13, no issues noted.

Rear end model RW RS-24-160. No known issues.

There are no changes on discharges, hose beds, or equipment storage.

### **Description of Refurbishment**

We understand that unforeseen problems can arise during the refurbishment requiring decisions that may change the scope of the project. A decision such as this may require an NFD representative be on-site to view the problem as well as solutions or alternatives. We also anticipate making several inspection trips during the project. In order to facilitate shop visits by NFD representatives, the successful bidder must be within 2 hours driving distance from Naugatuck to allow same day travel.

The proposal to include the cost of both picking up and delivering the vehicle from Naugatuck Fire Headquarters, 41 Maple Street. The NFD will remove all equipment and hose prior to pick up.

Proposal must include a start and end date for the refurbishment. Vehicle is available immediately upon signing work order. All work must be completed within 90 days of signing work order unless otherwise agreed to in writing.

#### **Chassis, Motor, and Drive Train**

- 1) Pressure wash, clean and degrease the entire apparatus including, the chassis, frame, engine, transmission, axles, pump, plumbing, and body sub-frame. Re-grease and lubricate according to manufacturer's specifications.
- 2) Complete inspection of frame rails, cross members, all brackets and hangers. Repair or replace any corroded items, repaint\rust proof, and reassemble. In 2011 we had corrosion on the frame rails repaired. The frame had rusted through in two locations behind the rear axle.
- 3) Replace shock absorbers and related hardware, option to replace leaf springs.
- 4) Transmission and rear axle service replacing all fluids and filters.
- 5) Replace brake rotors and pads. Replace air compressor, inspect brake cans and other braking components, replace as needed.
- 6) Replace power steering pump gaskets, repair leak in oil line to air compressor, replace intake hoses, replace thermostats, perform engine tune-up.
- 7) Flush radiator and cooling system; replace hoses and other hardware as needed.
- 8) Inspect steering components and make necessary repairs. Replace kingpins.
- 9) Inspect exhaust system, repair or replace as needed to ensure proper operation.

- 10) Complete air conditioner service.
- 11) Replace all pump ball valves and drains. Drains to be quarter turn type. Replace all pump packings.
- 12) Replace rear tires with Michelin "H" tubeless radial XDN2 all-weather tread. Replace front tires with Michelin "L" tubeless radial XZY3 mixed service tread.

## **Body**

- 13) Repair corrosion and other repairs on body such as dings and scratches, repainting vehicle to match current color scheme using epoxy primer and paint. Repair dents on tailboard and side boards. Isolate dissimilar metals to reduce future corrosion.
- 14) Repair damage and repaint all cabinet interiors and shelves using epoxy primer and paint. Vehicle to be re-lettered and department decals (supplied by NFD) applied to match current layout. Remove "Engine 3" from brow. Replace with similar decal "Engine 6".
- 15) Remove diamond plate from rear of body and the forward facing sections of body adjacent to the pump panel. Repair corrosion and paint to match body.
- 16) Install pull out tray on left rear compartment. Tray to hold portable Hurst power unit. Tray to extend full depth of the tray.
- 17) Install four (4) stainless steel fender liners.
- 18) Install stainless steel wheel liners on rear wheels, and covers on front wheels.
- 19) Replace reflective stripes to meet current NFPA 1901 standard including chevron in rear.
- 20) Slip resistance strips installed on exterior walking or stepping surfaces that do not meet the current NFPA 1901 standard.
- 21) Replace rub rails using nylon spacers to avoid contact with the body.
- 22) Replace all weather stripping on all exterior doors including SCBA bottle holders.
- 23) Replace all spring door stops on cabinet doors.
- 24) Install any applicable warning signs and specification plates as required by NFPA 1912, 2011 edition.
- 25) The NFD will supply two (2) department decals for the sides. Replace "3" with "6".

## Electrical and lighting

26) Electrical load analysis to take into consideration upgraded lighting systems. Increase alternator size to maximum available and installation of a load manager.

27) Replace emergency lighting with LED and halogen warning light system from Whelen Engineering (Pumper Package #2). New warning lights to meet current NFPA 1901 standard:

Zone A Upper: Model DI4S7N Delta Independence 72" light bar

Zone A Lower: Two (2) Model M9D Linear Super-LED, split red/white

Zone B Upper: Covered by Zone A upper light bar and Zone C upper light

Zone B Lower: Two (2) Model M7D linear Super-LED, split red/white

Zone C Upper: Two (2) B6MMRRP Super-LED beacons, red

Zone C Lower: Two (2) M9D Linear Super-LED, split red/amber

Zone D Upper: Covered by Zone A upper light bar and Zone C upper light

Zone D Lower: Two (2) Model M7D linear super-LED, split red/white

28) Replace incandescent lights in cabinets with LED lighting. The lights are to be white LED tube style, one on each side cabinet wall running as near the full height of the cabinets as practical. Lights activated when cabinet door is opened.

29) A total of ten (10) Whelen model 20C0CDCR 4" round Super-LED lights with model 2GROMMET, grommet mounts for ground illumination. Four (4) lights under each side of the apparatus and two (2) lights under the rear of the apparatus. Mount lights with angled brackets to allow the light to shine down and outward from under the truck body. Waterproof connectors must be used. These lights shall be controlled by a switch in the cab labeled "Ground Lights".

30) A total of four (4) Whelen model T0CACCCR LED Lights with Chrome flanges, model TFLANGEC shall provide illumination for the cab steps inside the cab doors. These lights shall be each controlled by a door switches to illuminate when the door is opened.

31) Replace existing brake, turn, and tail lights with LED lights, Whelen M6 series.

32) Replace interior cab lights with dual color (red/white) LED dome lights, Whelen model 80CREHCR. Lights to be operated by front seat passenger and fire fighters in rear while seated and wearing seat belts.

33) Cab doors to have amber LED strobe on lower interior panel that operate when door is opened, facing towards oncoming traffic, Whelen 2G oval LED.

34) Install LED brow light and two side LED flood lights, Whelen Pioneer Plus 12V dual lamp. Side lights on cab between front and rear doors. Lights to be operated from officer's position in cab while vehicle is in motion. Remove existing pole lights on rear of cab.

### **Cab**

35) Replace driver's seat with a H. O. Bostrom Sierra EX8 8-way electric seat. Replace officer and rear seats with H.O. Bostrom Tanker 450 ABTS seats. Seating capacity will remain the same (4 positions). Officer and rear seats to hold Scott Series 50 SCBA with 30 minute bottles.

36) Replace side mirrors with remote control and heated model. "Bus" type mirrors are not acceptable.

37) Install NFPA compliant helmet holders in cab.

38) Cosmetic repairs to cab interior such as re-painting and padding repair or replacement.

39) Inspect lift pistons for cab and replace grommets.

### **Bid Options:**

1) Install On-Spot chains

2) Replace all leaf springs and associated hardware.

For additional information or to arrange to inspect the pumper, please contact Fire Chief Ken Hanks, 203-720-7081 or khanks@naugatuck-ct.gov