

**Town of Effingham, New Hampshire
Request For Proposals
Engine 2 Refurbishment**

The Town of Effingham NH is currently seeking competitive proposals from qualified individuals or companies, acting singularly or in consortium, to provide fire apparatus refurbishment for Effingham Engine 2 as described below.

Sealed proposals are due no later than **Tuesday, September 3rd, 2024, by 2:00 pm**. Proposals should be directed to the attention of: JT Harmon, Fire Chief and mailed to 68 School Street, Effingham, NH 03882. Proposals should be clearly marked "Engine 2 RFP". Faxed or emailed proposals will not be accepted. Time and effort spent for preparation of any proposal is the responsibility of the proposer.

For questions or to schedule a viewing of the vehicle, contact Fire Chief JT Harmon by email at jharmon@effinghamfire.org or by phone at (603) 941-8889.

Background:

Effingham Engine 2 is a 2004 Kenworth commercial cab pumper/tanker originally built by Central States. The water capacity is 3000 gallons with a 1500 GPM Waterous top-mount pump panel. There are tank dump chutes on each side of the body as well as a single rear dump chute. There is an on-board foam tank and proportioner. 28' and 16' ladders are mounted on a powered Zico ladder rack on the exterior of the body, drivers' side. The portable dump tank is located in a Zico-powered tilt-down compartment on the officer's side. 2 lengths of 6" hard suction are located on the top of the ladder rack, with a third section in a hard-mounted tray on the officer's side above the dump tank. The hose bed currently carries 1250' of 4" supply hose and 150' of 2 1/2" preconnected attack hose, plus 2 crosslay 1 3/4" preconnected hoses (200' each) over the pump. Due to the age of the apparatus, corrosion and general wear and tear over the apparatus life so far, we are submitting this request for proposals on a full refurbishment on this apparatus.

Proposed General Specifications:

These specifications are not absolute, rather, they are the desired outcome of the refurbishment. Recognizing that time, effort and cost will play a large part in the final outcome, please provide any suggested/proposed alternative and additional specifications for this work to be done. Clearly detail where deviations from the following specifications will occur.

No component manufacturers specifically required unless otherwise noted.

HEIGHT RESTRICTION- No component on finished apparatus shall extend above a height of 9'-10", with the exception of flexible radio antennas. This restriction CANNOT have any deviations.

RFP Submission:

The RFP shall include the following elements: Cost breakdown in a line-by-line format, warranty description, estimated start date, estimated date of completion and payment terms.

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Chassis:

- Clean/Sandblast all rust, corrosion and scale from frame and suspension.
- Re-paint / undercoat frame and entire body.
- Rebuild transfer case.
- Replace rear wheels as necessary, paint red.
- Replace driveshaft u-joints, sandblast, balance and repaint.
- Replace any corroded air valves and associated hoses.
- If necessary, replace the fuel tank and air tank mounting straps.
- Perform PM service on generator, engine, transmission, axles and hubs.

Cab:

- Remove bench seat, add non-air ride, non-SCBA passenger seat.
- Install center console to contain the following items:
 - o Transmission push button selector
 - o Pump shift and indicator lights.
 - o Two mobile radio heads (Kenwood NX5000, Provided by department)
 - o Siren controller
 - o Map book storage compartment.
 - o Two cup holders (at least 3 ¼' in diameter)
- Provide and install backup camera (provide option for officer's side camera as well)
- Cab steps to be straightened/rebuilt on driver's side, officers side steps to be widened for safety purposes. Final width to be similar to the width of the body.
- Remove existing cab air compressor, add an auto-eject air shoreline next to current electric shoreline and provide appropriate plumbing.

Body:

- All body corrosion to be addressed, mitigated and repaired as necessary.
- Compartment size/shape to stay as current. Maintain on-board generator.
- All pull out tray hardware (slides, gas shocks, etc.) to be replaced. Trays can be cleaned and re-used.
- Body wiring to be replaced as necessary.
- Compartment lighting to be upgraded to LED strip lighting.
- Front upper and lower compartments on both sides shall be wired with (1) 120V receptacle powered via the shoreline, and a 12v constant power block in each compartment.
- Roll-up doors to be replaced
- Diamond treadplate can be re-used if in good condition. Replace as necessary. Reused treadplate shall be cleaned and buffed.
- Remove diamond plate on rear of body and replace with option to allow for NFPA complaint chevron striping, install said striping. The metal used shall be the best option to prevent corrosion.
- Maintain current locations for all anti-slip footsteps on the rear of body.
- Fenderettes, rub rails and any other trim/door/hinges to be removed, corrosion addressed and replaced or re-used if in good condition. If fenderettes are replaced, a rubber style is preferred.
- Rear axle inner fenders are to be fully supported and reinforced along with body exterior in these areas.
- SCBA cylinder storage doors to be replaced. The middle two storage tubes on the driver's side are to be converted to fire extinguisher storage (Capable of housing a standard size APW extinguisher). Existing fire extinguisher mounts on the driver's side to be removed.
- Body shall be painted to match the red color of the cab, as closely as possible.
- NFPA Compliant striping, black in color, to be installed.

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Hose Bed:

- Existing hard diamond plate hose bed covers to be cleaned and re-used. Straighten as necessary, replace gas shocks and hardware.
- New end flaps to be installed, either black or red in color.
- Provisions to be made for one (1) length of hard suction hose to be stored in the right side of the hose bed.
- Existing hose bed access ladder to be cleaned and re-used with new anti-slip tread applied.

Ladder Rack:

- Ladder rack to be replaced with new Ziamatic locking actuators.
- Ladder rack to hold a 28' two section extension ladder and a 16' roof ladder as well as one 14' length of hard suction.

Water and Foam Tanks:

- Tanks to be flushed and cleaned.
- Foam tank lid seal to be replaced.

Pump, Valves, Discharges:

- Existing pump to be rebuilt and reused.
- Pump configuration to be changed from top mount to side mount.
- Color coding of valve controls TBD in conjunction with the department.
- Electronic MIVs to be maintained. Controls to be inspected and reused. Replace seals on MIVs.
- Pressure governor to be inspected and reused.
- Existing foam pump and controls to be inspected and reused. Foam system to be thoroughly flushed and tested.
- All existing discharge valving to be rebuilt or replaced as needed.
- Existing catwalk area to be utilized for hose crosslays and tool storage.
 - o Hose crosslays to consist of two 1 3/4" hoses and one 2 1/2" hose and be capable of holding up to 200' of hose in each lay.
 - o The new 2 1/2" crosslay shall take the place of the existing rear 2 1/2" discharge.
 - o 1 1/2" fittings for the 1 3/4" crosslays shall have NPSH threads, 2 1/2" fittings for the crosslay shall have NH/NST threads.
 - o Crosslays shall have a containment cover system with a quick release.
- Existing deck gun to be removed and replaced with a remote electrically controlled, extendable Akron or Elkhart deck gun. Electric controls shall be wireless and remotely controlled. Department will retain the current deck gun for use elsewhere.
- Any unused space in the area of the existing crosslays and pump panel controls to be used as dunnage storage. Exact configuration of the crosslays shall be designed in conjunction with the department.
- Pump test to be provided after completion of pump and valving work.

Lighting:

- Replace all clearance lights with LEDs.
- Replace headlights with an LED option.
- Replace all warning lights with LEDs
 - o Include additional 2 red lights in the grille
 - o Include 2 additional warning lights on each side of the vehicle or strip lighting in the rub rails.
- Replace brake/turn/reverse lights with LEDs

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- Replace all body mounted scene lighting with LEDs
- Unity spotlights on rear of vehicle to be replaced with LEDs
- Add LED ground lighting to illuminate the area immediately around the vehicle.
- Existing tripod lights will be removed by the department.

Optional Items:

- Provide cost for replacement of all tires.
- Provide cost to repaint entire cab red
- Provide option for a bumper mounted Federal Signal Q2B mechanical siren with cab controls.
- Provide an option for new tank level lights on 3 sides of the vehicle.

Additional Items:

- Provide warranty terms.
- Provide payment terms.
- Provide estimated start date and estimated date of completion.
- Estimates shall provide line-by-line cost breakdown as much as possible.



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