

**Request for Proposals
Refurbishment of Homer Fire Department Apparatus
Engine 4
City of Homer, Alaska**

AUG 27 2014

Proposals to refurbish Engine 4 will be received at the Office of the City Clerk, City Hall, City of Homer, 491 East Pioneer Avenue, Homer, Alaska, until **4:30 P.M., Friday September 26, 2014.**

The time of receipt will be determined by the City Clerk's time stamp. Proposals received after the time fixed for the receipt of the bids shall not be considered. All firms submitting proposals must be listed on the "Plan Holders List" maintained by the City Clerk. All bidders must submit a City of Homer Plan Holders Registration form to be on the Plan Holders List and to be considered responsive. Plan holder registration forms, and Plans and Specifications are available on line at <http://www.cityofhomer-ak.gov/rfps>. Respondents not on the plan holders list shall be deemed unresponsive and shall not be considered. The City shall not accept faxed proposals.

For proposal specifications and evaluation criteria please visit the city website <http://www.cityofhomer-ak.gov/rfps> or contact:

City Clerk's Office
491 E. Pioneer Avenue
Homer, Alaska 99603
907-235-8121, Extension 2227

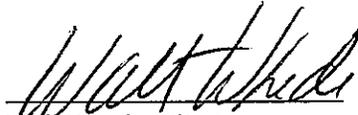
Please direct all questions regarding this project to:

Robert Painter, Fire Chief
604 E. Pioneer Ave.
Homer, Alaska 99603
907-235-3155, Extension 1

The intent of this proposal effort is to provide an opportunity for fire apparatus manufacturers and service centers to bid on the project to refurbish an existing fire engine to NFPA Level 2 requirements. This is the first of two projects to be considered (the second to follow the initial project).

Dated this 27th day of August, 2014

CITY OF HOMER


Walt Wrede, City Manager

Advertisement:

Homer Tribune September 3 & 10, 2014

Fiscal Note: 100.0150.5227

Request for Proposals
Homer Volunteer Fire Department
Engine 4 Refurbishment
2014

- I. Overview – The City of Homer, Homer Volunteer Fire Department is seeking proposals to perform a Level II Refurbishing as outlined in NFPA 1912 Fire Apparatus Refurbishing, 2011 Edition. The apparatus is a 1984 E-One Engine, 4-wheel drive, 750 gallon tank with 1500 GPM Hale pump.
 - a. As a Level II Refurbishment is primarily an “advise and repair/replace as approved” project, all work outside that specified shall be approved prior to beginning the modifications to the apparatus.
 - b. The “Optional Equipment/Work” is to be quoted separately per item. The Fire Department will determine what additional work/equipment may be added to the project once the initial service and inspection work is completed.
- II. Proposals shall be submitted, in writing to:
Robert Painter, Chief
C/O City of Homer
City Clerk’s Office
491 E. Pioneer Ave.
Homer, AK 99603
E-mail: clerk@ci.homer.ak.us

Questions should be directed to:
Robert Painter, Chief
(907) 235-3155
E-mail: rpainter@ci.homer.ak.us
- III. Carrying Capacity
 - a. Engine 4 is designed to carry 5 fire personnel including the driver/operator. No changes to this configuration shall be allowed.
- IV. Frame – inspect for wear, broken or loose bolts or other fittings, bent or damaged members, or other components.
 - a. Advise of any repairs or modifications needed.
- V. Drivetrain – inspect all components of the drivetrain for wear, balance, stress cracks, or other damage, including the drive shaft, end yokes, flanges, universal joints and associated mountings.
- VI. Engine and Engine System Design – inspect the engine and all related accessories for wear, fluid leaks, loss of power, excessive smoke, or other potential problems.
 - a. All belts and filters shall be replaced
 - b. The vehicle engine shall be serviced to manufacturer’s specifications for the model year/hours on the engine.

- VII. Cooling System – inspect all portions of the cooling system for leaks, blockages, wear, and other conditions that could affect the cooling of the vehicle’s engine.
 - a. The cooling system shall be flushed, and new coolant that meets the engine manufacturer’s requirements shall be added.
- VIII. Lubrication System – inspect for wear, leaks or other problems that could affect the performance of the system.
- IX. Fuel and Air Systems – inspect for wear, leaks, and other problems that could affect the system.
 - a. All fuel system filters and air system filters shall be replaced.
- X. Exhaust System – inspect all portions of the system for leaks, loose hangers, rusted tubing, wear, and other problems that could affect the performance of the exhaust system.
- XI. Braking Systems – inspect all components of the braking system for excessive wear, leakage, loss of performance or other problems that could affect braking of the apparatus, including exhaust brakes.
- XII. Suspension – inspect all axles and wheels, springs, hangers, mountings, and suspension system accessories for wear, stress cracks, sagging, improper bolt torque, or other problems.
 - a. The refurbished apparatus shall meet all applicable federal and Alaska state weight ratings upon completion.
- XIII. Steering – inspect the entire system, including steering box, steering gear, drag links, power steering pump,, hose, and accessories for wear, leakage, loss of performance or other problems.
 - a. Replace existing turn indicator with automatic cancelling indicator on steering column.
- XIV. Transmission/Transfer Case – inspect all components of the transmission/transfer case, their mountings, and the associated accessories for wear, leaks or damage.
 - a. All fluid levels shall be checked and all filters replaced.
- XV. Fuel Tank – inspect all components of the fuel tank, its mountings and accessories for wear, leaks, or damage.
- XVI. Low Voltage Electrical Systems and Warning Devices
 - a. The existing lighting shall be replaced, where possible, with low voltage LED lighting to include: tail, brake and turn indicators, marker/running lights, compartment lights and all emergency lighting.
 - b. All existing wiring harnesses shall be inspected and replaced if worn.
- XVII. Load Management – a load management system shall be installed to protect the electrical system from damage and to allow continuous charging/conditioning of the vehicle batteries while plugged into shore power.
- XVIII. Optical Warning Devices – all shall be replaced with LED lighting to current NFPA specifications for new apparatus.
- XIX. Audible Warning Devices – all shall be replaced with suitable audible devices per NFPA specifications. No mechanical sirens will be permitted on the apparatus.
- XX. Driving and Crew Compartments

- a. There shall be seating for 5 personnel: 3 in the cab of the vehicle, including the driver/operator and two in rear facing jump seats.
 - b. Seating shall be installed to incorporate “walk-away” SCBA storage, with the exception of the driver/operator seat.
- XXI. Body, Compartment, and Hose Storage
- a. The hose bed shall be capable of carrying 800’-1,000’ of 5” nitrile hose with Storz couplings in the right side of the hose bed and 800’ of 3 inch nitrile hose on the left side of the hose bed.
 - b. Hose bed covers are to be installed to comply with current NFPA standards.
 - c. Crosslays will consist of 2 trays for 1 ¾” preconnected lines of 200’ nitrile hose and 1 tray for 3” preconnected 200’ nitrile hose. Appliances to secure the attached nozzles (gated wye on the 3 inch) shall be provided and installed on the apparatus. (hose will be placed once the unit arrives at its final destination)
 - d. Compartments shall be lighted, with dry-decking installed in the bottoms of each compartment.
 - e. The existing over hose-bed ladder rack shall be removed. Ladders, to include a 24 foot extension ladder and 18 foot roof ladder will be carried on the side of the apparatus.
- XXII. Metal Finish – the body shall be completely cleaned and prepped for repainting and refinished in the same color as provided. All lettering shall be similar as to what currently exists on the apparatus.
- a. Rear chevrons shall be applied/painted per current NFPA standards.
- XXIII. Fire Pump – the fire pump shall be completely overhauled per manufacturers recommendations.
- a. An on-board Foam Pro Class A and Class B foam system 2024 series, shall be installed on the apparatus to provide either type foam to all pre-connected fire hoses.
 - b. Each type foam tank shall be capable of holding 40 gallons of foam concentrate.
 - c. It shall be required to be able to refill foam tanks from the ground.
 - d. Foam tank level indicator lights are to be mounted on pump panel.
- XXIV. Water Tank – inspect tank for leaks, damage or corrosion that would reasonably result in a leak in the near future. If deficient, the tank shall be replaced with a “poly” tank with a manufacturers lifetime warranty, upon approval.
- XXV. Equipment Carried on the Fire Apparatus – there will be no new equipment provided with the apparatus, except for the that specified below.
- a. The existing, front mounted winch shall be serviced per manufacturer’s recommendations and the cable replaced with new cable of the same rating as provided.
 - b. The top-mounted electrical generator shall be replaced with a new, comparable rated Honda generator and wired to provide line voltage power to all external junction boxes and pole mounted scene lights.
 - c. The pole mounted scene lights shall be replaced with comparable lumen LED lighting to reduce the voltage demands on the generator.

- XXVI. Existing Communications Equipment - shall be retained and reinstalled following refurbishment of the apparatus. This includes primary radio and headset system.
- XXVII. Test and Delivery Data Requirements
- a. The refurbished apparatus shall be completely tested and certified by the company providing the refurbishment, as per NFPA 1912, 2011 edition, including:
 - i. Pump testing
 - ii. Pumping Engine Overload Test
 - iii. Pressure Control Device Test
 - iv. Priming System Test
 - v. Vacuum Test
 - vi. Water Tank-to-Pump Flow Test
 - vii. Water Tank Capacity Test
 - viii. Low-voltage Electrical System Test
 - ix. Line-voltage Electrical System Test
 - x. Foam System Test
 - xi. Road Test
 - xii. Delivery Acceptance Testing – will be conducted on the manufacturer’s site prior to delivery of the apparatus. A representative of the fire department shall witness final acceptance testing.
- XXVIII. Optional Equipment/Work (to be quoted per item, separately)
- a. Install visual tire pressure indicators on all tire/wheels
 - b. Provide and install electric intake valves on draft hose intake ports.
 - c. Provide and install Electronic Pump Control FRC model J1939
 - d. Modify pump access panels to a button/latch system to facilitate ease of removal for service and maintenance.
 - e. Provide and install a TFT Extend-a-Gun Package (XFC-1)
 - f. Provide and install Class I ITL40 Tank Level Gauges at the pump panel, rear, and cab of apparatus.
 - g. Provide and Install air horn remote activation button on pump panel for use by engineer.
 - h. Provide and install engine compression braking system (Jake Brake).
 - i. Provide and install clapper’ed tank to pump valve
 - j. Provide and install “on-spot” tire chain system on rear wheels
 - k. Provide and install rack on top of cab for “Little Giant” utility ladder.
- XXIX. Delivery
- a. The successful bidder will submit proposals for the delivery both to and from the site of the work to be done. Homer Alaska is situated on the road system so the apparatus can be driven overland, driven and barged to a suitable port of call, or shipped via flatbed trailer/truck to the shop location.