



Proposal / Scope of Work for Refurbishing Apparatus

August 6, 2023

Lexington Fire Department
219 East 3rd Street
Lexington, Kentucky 40508

Upon approval from Lexington Fire Department, and final acceptance by Atlantic Emergency Solutions the apparatus and equipment herein will be refurbished in accordance with National Fire Protection Association (NFPA) 1912, for the following prices:

Pierce Job # 14608 – 2003 Pierce Dash Refurbishment

Payment Schedule:

- 50% on apparatus arrival to service center \$575,884.00
- 25% completion of work to cab, chassis, body, and aerial before reassembly \$287,942.00
- 25% on acceptance of apparatus \$287,942.00
- *Performance Bond Included

Total: **\$1,151,768.00**

Said apparatus is to be refurbished and shipped in accordance with the attached scope of work. The refurbishment shall be complete within 365 days of receipt and acceptance of the apparatus. Due to global supply chain constraints, any delivery date contained herein is a good faith estimate as of the date of this order/contract, and merely an approximation based on current information. Delivery updates will be made available, and a final firm delivery date will be provided as soon as possible. The scope of work shall form a part of the final contract. The scope of work is subject to change if necessary or desired by the department. Such changes, the cost associated with them, and any delivery impacts must be discussed and accepted by all parties.

This proposal for fire apparatus refurbishment conforms with NFPA 1912, all Federal Department of Transportation (DOT) rules and regulations in effect at the time of original construction, and with all NFPA Guidelines for Automotive Fire Apparatus as published at the time of original construction, except as modified by customer specifications. The refurbishment shall not have any negative impact on the Gross Axle Weight Rating (GAWR), or the overall height requirement, (not to exceed 136"). Both the GAWR and overall height will remain the same, as originally constructed. All original labels will either be preserved or replaced. Electrical schematics if changed from original design will be updated.

NFPA Certification: After work is complete and prior to final inspection a third-party company will test the chassis and ladder and issue recertification in accordance with NFPA. **NOTICE:** This proposal for fire apparatus refurbishment conforms with NFPA 1912, all Federal Department of Transportation (DOT) rules and regulations in effect at the time of original construction, and with all NFPA Guidelines for Automotive Fire Apparatus as published at the time of original construction, except as modified by customer specifications.

Pickup & Delivery: Atlantic Emergency Solutions will provide a driver for pickup and delivery of the apparatus. The apparatus will be picked up and delivered under its own power at Lexington Fire Station #1, 219 East 3rd Street, Maintenance Facility. Free On Board (FOB) Origin.

Visits: The following inspection visits will be scheduled; review, disassembly, assembly, and final inspection. Review visit will take place once the truck has been delivered to the refurbishment facility and the crew has assessed the apparatus, prior to work beginning. Disassembly will take place when the body has been removed from the chassis. Assembly will take place just prior to the body being remounted to the chassis. Final inspection will take place when work is complete, and the apparatus is ready to be delivered to the customer. Review, disassembly, and assembly visits will take place in one day. The final inspection will take place over two days and travel expenses for three members are included for the final inspection. The customer is free to visit the facility, at their own expense, at any other time, with a twenty-four-hour notice to the facility. Additionally, picture progress reports will be provided throughout the process.

At final inspection, a road test shall be conducted with the apparatus fully loaded and a continuous run of (10) miles or more shall be made under all driving conditions, during which time the apparatus shall show no loss of power or overheating. The transmission drive shaft or shafts, and rear axles shall run quietly and be free from abnormal vibration or noise throughout the operating range of the apparatus. The vehicle shall adhere to the following parameters:

- The apparatus, when fully equipped and loaded, shall have not less than 25% or more than 50% of the weight on the front axle, and not less than 50% nor more than 75% on the rear axle.
- The apparatus shall be capable of accelerating to 35 mph from a standing start within 25 seconds on a level concrete highway without exceeding the maximum governed rpm of the engine.
- The service brakes shall be capable of stopping a fully loaded vehicle in 35 feet at 20 mph on a level concrete highway. The air brake system shall conform to Federal Motor Vehicle Safety Standards 121.
- The apparatus, fully loaded, shall be capable of obtaining a speed of 67 to 70 mph on a level concrete highway with the engine not exceeding its governed rpm.

Warranties: There will be a six-month workmanship and material warranty on all repaired / replaced items. Any individual component warranty that supersedes the terms of this warranty will be acknowledged. There shall be a thirteen-month paint warranty. The warranty will begin at the time of final inspection. The paint warranty coverage includes blistering, peeling, corrosion, or any other adhesion defect caused by defective manufacturing methods, paint materials, or application.

Taxes: Tax is not included in this proposal. In the event that the purchasing organization is not exempt from sales tax or any other applicable taxes and/or the proposed apparatus does not qualify for exempt status, it is the duty of the purchasing organization to pay any and all taxes due.

Terms: The terms of this proposal will be governed by the laws of the state of Virginia. No additional terms or conditions will be binding upon Atlantic Emergency Solutions unless agreed to in writing and signed by a duly authorized officer of Atlantic Emergency Solutions.

Cancellation: Due to the nature and complexity of this project, if the customer chooses to cancel the order both parties shall negotiate and agree upon the terms. If a resolution cannot be agreed upon both parties shall enter arbitration. The arbitrator shall be mutually agreed upon and expenses paid by the customer.

Payment Terms: Net 30 days. An 18% (1.5% Monthly) APR Late Fee Applies to Past Due Balances.

Ladder Storage Area: Reconfigure ladder rack for two 28-foot extension ladders. Ladder racks will be removed fab work will be done. Once completed the ladder rack dura surf will be replaced, they will be steam cleaned and reinstalled. New tags for compartment lay out will be installed.

Remove Front Bumper and Change to 13-inch bumper: The old bumper will be removed as well as the cord reels and all brackets. The new bumper will be installed with Q2B siren mounted on the top in the driver's side corner. Two air horns will be installed in the front of the bumper with two ES100 siren speakers mounted in the front as well. The front bumper will be painted job color with chevron striping across the front.

Monitor Rebuilt: The monitor on the tip of the aerial will be removed and rebuilt.

Replace Turntable: Remove all handrails and all hardware to remove the turntable decking. Remove decking and remove support structure. Replace all hardware and install new support structure. Install new decking. All handrailing will be replaced.

Remove Aerial Ladder: Remove aerial Ladder from unit. Aerial will be disassembled for inspection. All sections will be inspected. All cables, sheeves, electrical lines, wear/ guide pads will be replaced. Aerial will be painted bright silver metallic #224, and all new items will be installed. All cylinders will be sent out to be inspected and rebuilt if needed. Aerial will be installed back on truck. Once installed the aerial will be greased and checked for any issues.

Remove and Replace all S/S Panels for Outriggers: Removed all S/S covers and trim for the outriggers and replace. All new hardware will be used.

Removed all Rub Rails and Upgrade to Poly rub rails: All S/S rub rails and hardware will be removed. All new poly rub rails will be installed and all new mounting hardware will be installed.

Update all DOT and emergency lighting to LED: All lighting will be removed from the truck to prep for body work and paint. All lighting that is not already LED will be updated to LED including all emergency, DOT, and scene lighting of the same style as recent spec. aerials.

Replace Rear Wall Substructure: The rear wall substructure will be removed as unit is made ready for paint. The new rear wall substructure will be installed as flat aluminum. This will be painted job color and will then have chevron reflective striping installed on the rear matching current trucks.

Replace all Mud Flaps: All old mudflaps will be removed. New mudflaps will be installed. Two on the front axle and two on the rearward axle on the tandems.

Inspect Rear Suspension Bushings and Springs: While body is removed the rear suspension will be inspected. All rear suspension components will be inspected, and all found items will be reported to the customer.

Rebuild and Dyno Motor: The engine will be removed and all components as well. The motor will be sent out to be torn down inspected and rebuilt. Once rebuilt the motor will dynode and full report will be provided. All filters will be replaced to include oil, fuel, air, breather, engine belts, coolant hoses plus clamps will be replaced.

Replace Power Steering Hoses and Check Steering Gear and Pump: The steering gear and pump will be removed and checked for leaks and wear. The steering gear will be rebuilt with new seals. If new a new steering gear is required customer will be notified. The pump will be replaced. New gasket will be installed for pump. Steering gear and pump will be installed, and all power steering lines will be replaced with new. All new fluid will be added to the system. System will be bled and checked for function and leaks.

Transmission Overhaul: The transmission will be removed and sent out to be rebuilt. Any finding will be reported to the customer. All transmission lines will be replaced, and the transmission cooler will be replaced. All new fluid will be installed once lines and transmission are installed.

A/C System: The A/C system will be removed, and the following items will be replaced. A/C compressor, Dryer, hoses, Expansion valves, Pressure switches. The condenser and evaporator will be removed and tested for leaks. All new lines will be made and installed. All components will be installed the system vacuumed down and then filled to the correct capacity. Then will be checked for any leaks.

Cab Lift: The cab lift system will be drained down. The cab lift cylinders will be removed and rebuilt. If no seal kit is available, the cab lift cylinders will be replaced with customer notification. All cab lift lines will be replaced. Cab tilt bushings will be removed and replaced. Cab locks will be removed and replaced with new.

All cab isolators will be replaced. System will be filled with new oil and checked for leaks and proper operation.

Front Suspension: The front suspension will be taken apart and inspected. All components will be replaced. To include the following, Tie rods, Draglink, Shocks, Steering Assist cylinder, Leaf Springs, and bushings. Any other items needing replaced or require work customer will be notified.

Replace Cab Mirrors: Cab Mirrors will be removed from the front of the body. Holes will be filled in when cab is repainted. Mirrors will then be installed on the cab doors matching the current units.

Front Grab Handles: Two ten-inch grab handles will be added to front of the cab. Mounted between the wiper arm and the headlights. Grab handles will be mounted and secured to handle load.

Cab Doors: All Cab door will be stripped. Cab doors will be painted when truck is painted. All window and door gaskets will be replaced. All window regulators and knobs will be replaced. All door handles inside and outside will be replaced and door latch. All door rod clips will be replaced and or cables replaced. All S/S door panels and liners will be replaced.

Windshield: Windshield will be removed. Cab will be painted, and new windshield will be installed. A new gasket will be used.

Scene Lighting: All 120 Volt scene lighting will be removed and replaced with 12-volt HiViz slim bar scene lights. An amp draw report will be done prior to installing lights.

Compartment and Door Seals: All door and compartment seals will be removed, and all will be replaced with new.

Compartment Lighting: All compartment lighting existing will be removed. New LED compartment lighting will be installed in place.

Fender Crowns: Removed old fender crowns. Once body is painted new rubber fender crowns will be installed on front wheel wells as well as both tandem wheel wells.

Rear Axles: The rear ends will be drained, and the axles will be pulled out. Rear end center sections will be pulled and inspected. Any defects will be reported to the customer for any further repairs needed. Center sections will be reinstalled and filled. Hubs on both axels will be pulled and inspected. Wheel seals will be replaced. All new bearings and races will be installed. Hub will be placed back on truck and installed to spec. both axles will be reinstalled with new gaskets. All four high hats will be replaced with new bands as well. Both rear ends will have fluids topped off and checked.

Exhaust: The exhaust system will be removed from the turbo back. All exhaust components will be replaced with new. As well as all clamps, hangers.

Wheel Chocks: All wheel chock brackets, folding Zico style, will be replaced.

Compartment Tray and Flooring: All compartment floors and trays will have the matting and or turtle tile replaced in them color black.

Prox. Switches on outriggers and aerial: All Proximity switches will be inspected and checked for proper function. Any issues will be sent to the customer.

Chassis Air System: The truck air system will be completely removed. All air lines will be replaced. All Synflex and braided air lines will be new. All air fittings will be replaced with compression fittings per the FD spec., All check valves, relay valves, ABS valves, and brake valves will be replaced. All air tanks will be replaced. A new Air dryer assembly will be installed.

Body Isolators: All body isolators will be removed when body is painted and will be replaced and new will be installed when body is reinstalled.

Aerial PTO and Pump: The aerial PTO and pump will be removed and replaced. All hydraulic lines will be replaced, and hydraulic oil will be replaced. All new aerial filters will be installed. Any other items found will be reported to the customer for further repair.

Shoreline Outlets: Shoreline outlets will be added to D3, D2, P2 and P3 compartments at specified location picked by customers and on a transfer switch.

Cord Reels: Cord reels will be moved to / added to dunnage area to feed out the compartment added above the outrigger. A cover will be fabricated to cover the cord reel area. All cord will be replaced with new.

Frame Rails: Frame rails will be descaled and stripped down. Measurements will be taken and sent into Pierce for review. If frame rails are ok, they will be painted and coated with Carwell Coating. Once this is applied it needs to be redone yearly after that.

Torque Box: The ladder rack will be removed the torque box will be cleaned and any areas of concern will be sent to Pierce. Once Pierce send back recommendations a supplemental repair estimate will be sent. Pricing is for cleaning Torque box and reporting findings.

Dome Lighting in Cab: All dome lighting will be updated to LED.

SCBA Brackets: All SCBA brackets will be removed, and hands-free brackets will be installed.

Body and Cab: The body and cab will be removed and stripped down. Body and Cab will be sent to body shop for repairs and paint. Once completed they will be reinstalled.

Water Way and Swivel: Water way and swivel will be removed. The swivel will be sent back to Amity the MFG and checked over. If a new swivel is required customer will be notified with supplemental estimate. The water way will be disassembled, cleaned, and inspected. All seals and wipers will be replaced, and water way will be reassembled. The piping for the rear inlet will be removed and inspected. Sanded and repainted.

Electrical System: The electrical system will be inspected. Any electrical that will be removed or taken apart will have new connectors and pins installed. All harnesses removed will be inspected and any damage will be reported and added to a supplemental estimate. Batteries will be replaced, and the charging system will be tested. Alternator and starter will be sent out for testing. Any findings will be reported.

Cab and Body: Once cab and body are removed and stripped down the body, cab aerial and outriggers will be sent to the body shop for sand blasting, sanding, prep., and paint. Any damage on body and cab will be repaired. All paint will be original job color unless changed by customer at time of estimate given. All compartments will be sanded and repainted to original color.

Roll up Doors: All roll up doors will be removed and replaced with AMDOR as customer spec. on newer units. Painted Job color.

Aerial Intercom: Remove old aerial intercom and install current intercom per FD spec. Check operation.

Slide Pads for Outriggers: Outrigger ground pads will be removed and replaced with the poly ones and new holders will be installed.

Replace Aerial Rung: Rung will be cut out and then new rung will be welded into place by certified welder.

Install Mansaver Bars: Mansaver bars will be installed on the turntable access area. The chains will be removed when the handrails are replaced.

Replace all rung covers: All current rung covers will be removed. Once aerial is painted new rung covers will be cut to fit and installed.

Diamond Tread Plate: All diamond tread plate will be removed from the truck. New diamond tread plate will be installed, and new hardware will be used.

Cab Seat Belts: All cab seat belts will be removed and replaced with new. All seats will be inspected for any damage and customer will be notified of findings.

Generator: The diesel generator will be removed and a Harrison 8KW generator will be installed in place of it. Generator will be wired in pump and PTO hooked up and tested.

Headset: Provide and install wireless Firecom system and headsets for four seating positions.

Quote is good for 15 days.

Estimate is for listed repairs only. Any quoted or hidden damages will be charged to the customer. Freight is not included in quote. As freight cannot be know at this time.