

# GENERAL CONDITIONS FOR FIRE PUMPING APPARATUS

## A. SCOPE

The City of Lexington desires to purchase one custom fire pumping apparatus to be used by the Lexington Fire Department meeting or exceeding these specifications. The apparatus shall meet the requirements of the most current National Fire Protection Association Standard #1901 in all respects for use as a fire pumping apparatus. Some items in the specifications exceed NFPA standards and will be considered minimum for compliance.

Any questions during construction of this apparatus are to be directed to the City of Lexington for clarification. At no point shall the bidder assume the City of Lexington's intent.

The City of Lexington reserves the right to reject any or all bids, to award the bid in part or in whole, and to waive any informalities or irregularities, and to accept any proposal that is deemed most favorable to the City of Lexington.

All bids must be submitted with the attached Proposal and Specification forms. The bidder shall indicate "yes" if they meet the specification or "no" if they do not meet the specification. The bidder shall list on the attached sheet labeled "Exceptions to Bid Specifications Sheet A" any variations from, or exceptions to, the conditions and specifications of this bid and shall be attached to the bid and specifications. All items that are marked as being an exception to a line item bid specification must contain supporting literature and/or documentation that declares the exception will meet or exceed that specification. Without this supporting literature and/or documentation, the exception to the bid will be considered as not meeting the intended specification. Decisions regarding equal to or better than will be the sole responsibility of the recipient of the bids rather than those companies submitting bids.

Three (3) complete sets of bid documentation must be supplied, one marked "**ORIGINAL**" and two marked "**COPY.**" The General Conditions and Specifications shall be considered as part of the Bid Document.

The price or prices quoted shall include all transportation charges fully prepaid to the City of Lexington – Lexington Volunteer Fire Department, Station located at 600 N. Tyler, Lexington, Nebraska 68850. The bid price shall remain valid for a period of 60 days from the date of bid opening.

Awards will be made to the lowest responsible bidder. The quality of the articles to be supplied, their conformity with the specifications, their suitability to requirements, delivery terms and guarantee clauses shall be taken into consideration.

### **B. INTENT**

It is the intent of this specification to describe the essential minimum requirements for construction and performance of the apparatus and associated equipment. Items not described in this specification for construction or performance, or in the most current National Fire Protection Association (NFPA) Standard #1901, may be accepted as the standard of the bidder, who shall be solely responsible for the design, construction and performance of apparatus and equipment.

The unit shall comply with all Federal, State, I.C.C., and D.O.T regulations, standards, and laws relating to commercial vehicles as well as to fire apparatus. The unit shall be able to pass a state motor vehicle inspection for commercial vehicles.

Any error, omission, or inconsistency that is identified by the bidder shall be listed as such on the attached sheet labeled "Exceptions to Bid Specifications Sheet A," and a proposal to meet the intent of the specifications shall be listed.

### **C. APPROVAL OF DRAWINGS**

Drawings for approval and blueprints with all details thereon must be furnished after the preconstruction conference and before the apparatus construction begins. The engineering drawing must be drawn to scale and representative of the bid unit after the preconstruction conference clarifications are incorporated. Views of both sides, as well as the front, back, and top must be shown. Generic drawings are unacceptable.

Full-scale pump panel approval drawings shall also be supplied prior to building the apparatus.

### **D. MANDATORY AND OPTIONAL WORK**

All items listed in the specifications are to be considered mandatory except items in Chapter 10 of the National Fire Protection Association (NFPA) standards, which are options that the City of Lexington may choose to include.

Any person bidding on this apparatus must agree to price, and perform all work, and furnish all equipment listed in both the specifications and the options.

The bid price that is used to determine the lowest responsible bidder shall include the price of the apparatus only and not the options.

### **E. BODY CONSTRUCTION MATERIAL**

It is the intent of the City of Lexington to accept an apparatus of aluminum or stainless steel body construction only.

A full description including grade, thickness, and tensile strength of the proposed material for body construction must be included with the bid.

### **F. CAB CONSTRUCTION REQUIREMENTS**

The cab shall be a fire apparatus custom, tilt type, constructed of aluminum or stainless steel. No alterations or additions to commercial chassis shall be permitted.

A full description including grade, thickness, and tensile strength of the proposed material for cab construction must be included with the bid.

Testing results of cab crash worthiness shall be supplied with the bid.

### **G. BUILT IN UNITED STATES**

All major components must be built and assembled in the Continental United States (engine, cab, chassis, and body).

### **H. EQUIPMENT MOUNTING**

All equipment supplied with the apparatus shall be mounted by the bidder at the factory or at the local warranty facility, in accordance with the instructions of the City of Lexington.

All loose equipment shall be supplied with brackets or custom fitted into mountings.

### **I. PROTOTYPE APPARATUS**

No prototype or experimental apparatus will be accepted. The builder must demonstrate that it has successfully produced and sold apparatus of the same design and of the same material in the past two years. Total exception to bid specifications will be cause for immediate rejection.

### **J. EVALUATION AND EXCEPTIONS**

In order to properly evaluate all bids, the specifications indicating compliance or lack therefore must be completed and returned with the bid. Bids submitted shall be in the same order as the specifications provided to you.

Whenever a brand or manufacturer's name is utilized in these specifications, it is included for descriptive purposes and to establish a level of quality. Products that are equivalent to those named may be proposed, providing that full supporting documentation is furnished establishing such equivalency. Simply providing manufacturer's literature WILL NOT be considered justification for the substitution. All substitutions must be listed as exceptions for evaluation.

The City of Lexington representatives shall be the sole judge if the substitution is acceptable as an equivalent.

Any exception or variation in construction, performance, test, or items of equipment between the City of Lexington's specifications and submitted on sheets provided along with the Bidder's Proposal, in bid sequence, and citing page and paragraph number. Bidder must explain in detail, and with full supporting data, how the proposed deviation meets or exceeds the specifications and why it is necessary.

**Important Notice:** Failure to comply with this requirement will automatically disqualify the bid.

The City of Lexington reserves the right to determine which, if any, deviations are acceptable.

A complete set of bidder's specifications of the proposed fire apparatus must be submitted with the bid, in bid order. **Submission of the bidder's specifications in bid specification order is a requirement, not an option.** "Yes" answers on the bid evaluation sheets do not relieve the bidder of the requirement to submit an accurate proposal.

Discrepancies found in the bidder's specifications will be considered noncompliant.

General layout drawings, showing the front, rear, left, right, and top view of a representative apparatus must be submitted with the bid for the purpose of comparison.

The specifications established by the City of Lexington shall, in all cases, govern the construction of the apparatus, unless a properly documented exception or deviation was approved.

Any bid indicating that the manufacturer's proposal specifications will be considered a complete substitute specification will be immediately rejected.

## **K. BID BOND, PERFORMANCE BOND AND INSURANCE**

A bid bond or certified check made payable to the City of Lexington in the amount of ten percent (10%) of the bid (not to exceed \$20,000) shall be furnished with bidder's proposal. The bond will ensure that the bidder will enter into contract and submit a performance bond within fourteen days of notice of award of contract. The successful bidder's bid bond will be returned after a contract is executed and an acceptable performance bond has been delivered to the City Clerk. In case of failure to comply within the stated time, the bid bond will be forfeited as liquidated damages because of the default.

The bid bond or check of all other bidders will be returned after bids are opened, evaluated, and award of the contract.

A performance bond in the amount of one hundred percent (100%) of the bid shall be furnished by the successful bidder within fourteen days after receiving the official notice of award of contract. Failure of the bidder to complete delivery according to the contract and specifications will be cause to begin action for forfeiture of performance bond.

The bond shall also guarantee compliance and performance with the warranty provisions of the specifications.

The bonds furnished by the successful bidder shall be from a surety company authorized to underwrite surety bonds in the State of Nebraska with a minimum AM Best rating of "A". The City of Lexington may review the financial condition of the surety and accept or reject any surety at its discretion. Sureties must submit bonds in a form that will be subject to the approval of the City of Lexington.

In addition to any other insurance which the bidder may be required to carry, the bidder shall maintain in effect, at its sole expense, Comprehensive General Liability Insurance, including, without limitation, Products and Completed Operations coverage, with a limit of not less than \$2,000,000.00. If an Excess Liability Umbrella policy is used to meet a portion of this requirement, the bidder will need to provide evidence that such coverage is written without exclusions for Products and Completed Operations coverage as well. Documentation of the amount of Liability Insurance carried by the manufacturer and the name of the insurance carrier shall be provided by the bidder at the time of bid submission in the form of a Certificate of Insurance. The successful bidder shall defend any and all suits and assume liability for the use of a patented device or article forming a part of the apparatus furnished under the contract. Failure to supply a copy of the Certificate of Insurance to the City Clerk with the bid will be cause for immediate rejection of the bid. If the bidder is awarded the contract, the bidder will also be required to name The City of Lexington and The Lexington Volunteer Fire Department as additional insureds with the bidder's insurance carrier.

## **L. CONTINGENCY FUND**

All bidders shall incorporate a \$5,000.00 contingency fund into the price of the apparatus. The fund is to be used “as-needed” by the City of Lexington relative to making custom modifications to the apparatus or the purchasing of equipment or components.

A full accounting of the funds shall be provided to the City of Lexington with any remaining funds deducted from the final invoice.

## **M. PAYMENT TERMS**

The City of Lexington will accept NO contract form that requires down payments, progressive payments during construction, or contracts with escalator clauses. Terms of payment shall be 100 percent (100%) payment after acceptance of the vehicle (See Section Q. “Acceptance” for terms). No other terms shall be acceptable.

Bidder shall be aware that it can take up to thirty days to process payment.

## **N. FACTORY INSPECTION TRIPS**

The successful bidder shall make arrangements for a minimum of three factory inspection trips for three personnel each, for the purpose of: (a) pre-construction meeting for bid apparatus, (b) inspection of complete chassis, and (c) final inspection before delivery of unit.

The cost of the trips shall not be included in the price of the apparatus. Inspections are to be billed to the City of Lexington by the dealer after each trip on an invoice detailing all expenses.

City of Lexington shall provide transportation and lodging for a minimum of two and a maximum of five people for the pre-build meeting and one inspection, minimum, prior to delivery.

Trips shall be of a minimum two days duration and include all commercial transportation, meals, and lodging, and be conducted during normal business hours, Monday to Friday.

The apparatus must be in finished condition and ready for shipment (except for the mounting of loose equipment) when the final inspection is scheduled. Placement of equipment will be completed at the final inspection.

A road performance and mini pump test as described in the test section must be performed during the final inspection.

In addition, the City of Lexington reserves the right to visit the manufacturer's facility at any time, at no cost to the bidder, to monitor the construction of the apparatus. Advance notice of these visits will be made prior to arrival.

#### **O. DELIVERY TERMS**

The apparatus shall be delivered by the bidder under its own power, within 365 calendar days from the date of notice of award, with all equipment specified to Lexington, Nebraska (rail or truck freight not acceptable).

Bidder must submit a firm delivery time (number of calendar days from date of order to date of delivery) of said apparatus with its bid. Quoting number of days after receipt of all components is unacceptable.

A deduction of \$200.00 per day may be made for each day over and above the quoted delivery date. The liquidated damages for delay will also apply if the unit is delivered and rejected until the unit is returned meeting specifications.

#### **P. PRE-DELIVERY SERVICE**

After transportation from the factory, and immediately prior to delivery, the apparatus shall receive a pre-delivery service consisting of engine oil and filter change, adjustment of engine to manufacturer's specifications, complete inspection including all electrical and mechanical devices for proper operation, and correction of leaks or obvious problems. In addition, the unit shall be cleaned and fully detailed.

If the location of the manufacturer is 300 miles or less, the service shall be performed six months after delivery.

#### **Q. ACCEPTANCE**

Acceptance of the delivered apparatus and equipment will be made at completion of all required tests, inspections, and receipt of all specified equipment. Equipment items not delivered at the time of the tests, or construction not in conformance with the proposal will be cause for the City of Lexington to withhold payment until delivery is complete and acceptable.

The finished apparatus will be inspected upon delivery for compliance with specifications, change orders, and previously authorized exceptions. Deviations will not be tolerated and will be cause for rejection of the apparatus unless they were originally listed in the bidder's proposal or previously approved by the City Council.

Liquidated damages in the amount of \$200.00 per calendar day, beginning the day after the declared delivery date, shall be deducted from the final payment until the apparatus is considered acceptable.

If, after thirty days, the apparatus is not brought up to compliance, the bidder may be considered in default of the contract, and the procedures to institute the provisions of the performance bond may be started.

City of Lexington reserves the right to hire a third party to perform or observe acceptance testing and inspection on behalf of the City of Lexington at the Bidder's facility.

#### **R. APPARATUS DELIVERY TESTS**

The road and pump tests required are those specified in NFPA Standard #1901 and Chapter 9 of the National Fire Protection Association (NFPA) and shall be conducted by the bidder at the time of delivery to the City of Lexington in the presence of City personnel.

In the event the apparatus fails to meet the test requirements on the first trial, a second trial may be made at the option of the bidder within thirty days of the date of the first trial.

Such trials shall be final and conclusive, and failure to comply with these requirements a second time shall be cause for rejection.

Keeping or storing the apparatus in any building owned or occupied by the City of Lexington during the above specified period, with the permission of the bidder, shall not constitute acceptance. Insurance covering loss, theft, or liability shall remain the responsibility of the bidder until formal acceptance is completed.

#### **S. SOLE SOURCE WARRANTY**

The apparatus body, cab, chassis and all major components shall be a sole source warranty. Any warranty issues that arise will be the responsibility of the manufacture to resolve, not the City of Lexington's responsibility.

#### **T. MANUFACTURER'S RELIABILITY**

The manufacturer must be satisfactory to the City of Lexington from the standpoint of experience, reliability, service and demonstrated ability to manufacture equipment, comparable as to size and type as specified for the past five years. A list of fire departments located in the State of Nebraska that have purchased the same type of apparatus from the bidder over the past five years must be supplied along with the bid for physical evaluation.



## **U. MANUFACTURER'S SOLVENCY**

The solvency of the manufacturer is a prime concern to the City of Lexington. Each bid must include a financial statement from Dun and Bradstreet or other nationally recognized accounting firm.

## **V. FACTORY AUTHORIZED SERVICE FACILITY**

In order to maintain this complex piece of apparatus, the experience and reliability of the factory-authorized service center is of major concern to the City of Lexington. The service facility must comply with the following criteria in order to be considered:

- The facility must have a minimum of five years' experience repairing and maintaining fire apparatus of the make and type of apparatus being bid.
- Adequate indoor heated facilities and a minimum of four factory-trained technicians to perform repairs, including power train, chassis, pump, generator, and controls must be provided.

The City of Lexington reserves the right to visit the facility for the purpose of evaluation and to reject any bidder that, in its sole opinion, does not fully comply with the provisions of these General Conditions.

## **W. SPECIAL REQUIREMENTS**

The overall size and weight of the finished apparatus is critical to the City of Lexington. The bidder shall complete, **and attach to its bid**, the special requirements questionnaire as set forth in Annex C of the National Fire Protection Association (NFPA) Standard #1901, including all compartment sizes, overall length, width, height, wheelbase, curb-to-curb turning radius, individual axle loads, and fully loaded weight of the apparatus.

Weight distribution shall not load the vehicle in such a manner as to exceed any individual axle rating, spring or spring hanger rating, or tire and wheel rating. Axles are to carry weight distribution as per S.A.E. axle-loading recommendations.

Certified weight readings are to be furnished with each apparatus as to front, rear, right, and left-side loaded curb weight.

The design and construction of the apparatus shall facilitate ease of inspection, maintenance and repair. At no point shall a meter or indicator be mounted in a manner that it is not easily readable or requires crawling under that apparatus to obtain the reading. The bidder shall make all reasonable attempts to allow full unrestricted access to major assemblies such as the pump.

## **X. NEW EMPLOYEE WORK ELIGIBILITY STATUS**

Bidder is required and hereby agrees to use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska. A federal immigration verification system means the electronic verification of the work authorization program authorized by the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, 8 U.S.C. 1324a, known as the E-Verify Program, or an equivalent federal program designated by the United States Department of Homeland Security or other federal agency authorized to verify the work eligibility status of a newly hired employee.

If Bidder is an individual or sole proprietorship, the following applies:

1. The Bidder must complete the United States Citizenship Attestation Form, available on the Department of Administrative Services website at [www.das.state.ne.us](http://www.das.state.ne.us).
2. If the Bidder indicates on such attestation form that he or she is a qualified alien, the Bidder agrees to provide the US Citizenship and Immigration Services documentation required to verify the Bidder's lawful presence in the United States using the Systematic Alien Verification for Entitlements (SAVE) Program.
3. The Bidder understands and agrees that lawful presence in the United States is required and the Bidder may be disqualified or the contract terminated if such lawful presence cannot be verified as required by Neb. Rev. Stat. §4-108.

## **Y. TRAINING**

A training schedule shall be coordinated with the Fire Chief for a factory representative to familiarize the firefighters with the basic operation of the apparatus and its components of the apparatus for a minimum of three consecutive days after delivery. The day of delivery shall not be considered one of these training days. **No exceptions.**

The bidder agrees to allow a City of Lexington representative to videotape the instructional presentation for future reference and training.

## **Z. GENERAL WARRANTY STATEMENT**

The bidder guarantees that all articles of equipment, including all parts thereof, comply in all respects, or are fully equal to, standards called for in the bid.

### **AA. APPARATUS WARRANTY**

The bidder shall warrant the apparatus and all major components for a period of two (2) years. The warranty shall be a sole source warranty for the entire apparatus.

Consumable items such as tires, batteries, hoses, belts, bulbs, and wiper blades will be the responsibility of the City of Lexington to maintain.

Component failures such as engine, transmission, suspension, brake and axle parts, alternator, starter, water pump, and AC generator are the responsibility of the bidder. Component parts that do not have a two year warranty will be the responsibility of the bidder to repair or replace at its own cost.

It shall be the responsibility of the bidder to coordinate all warranty repairs with component suppliers such as the engine and transmission manufacturer.

The warranty repair facility shall respond to an out-of-service call in the City within 24 hours.

The bidder is also required to provide routine warranty service at the City of Lexington's Fire Station whenever major shop work is not involved. For warranty service involving the shop, the apparatus will be delivered to and picked up from the bidder's facility by personnel of the City of Lexington.

While under warranty, if towing of the apparatus to the repair facility is required, it shall be the responsibility of the bidder to provide such service at its cost.

The bidder agrees to keep the apparatus in an indoor heated area at all times while in its possession and maintain insurance against loss or damage.

The frame rails shall be warranted from cracks and failure for the life of the vehicle.

The structural components of the cab shall be warranted for a period of ten (10) years from the date that the apparatus is placed in service.

The structural components of the body shall be warranted for a period of ten (10) years from the date the apparatus is placed in service.

Corrosion perforation of the sheet metal shall be warranted for a period of ten (10) years.

The paint shall be warranted for a period of seven (7) years from fading, cracking, or peeling.

## **BB. PREVENTIVE MAINTENANCE**

The purchase price of the apparatus shall include annual preventive maintenance of the apparatus for a period of two years (at 12 and 24 months in service). The maintenance shall be performed in the City of Lexington Fire Station by personnel of the manufacturer's authorized factory maintenance facility.

As a minimum, the maintenance shall include change engine oil and filters, change fuel filters, lubricate all recommended points on the vehicle, change air filter, brake adjustment (if necessary), and all other service procedures recommended by the manufacturer of the apparatus and its components such as pump lubrication and service, generator hydraulic fluid change, automatic transmission fluid change, etc.

In addition, the person performing the service will provide the Fire Chief with a list of items observed that require repair that are not part of this contract or warranty.

The City of Lexington reserves the right to renew the maintenance contract at two (2) year intervals.

### **CC. OPERATION AND SERVICE MANUALS**

Two complete "Operation and Service" manuals shall be supplied at time of delivery. Service manual instructions shall include service, maintenance and troubleshooting for major and minor components of the truck. The apparatus manufacturer shall supply part numbers for the major components (i.e. Cummins Diesel, Rockwell, Spicer, Allison, etc.). A table of contents, hydraulic, air brake and overall apparatus wiring schematics shall be included.

Two copies of all manuals for component equipment such as the engine, transmission, pump, and generator must also be supplied.

Supplemental electronic CD-ROM or flash drive manuals are preferred.

# SPECIFICATIONS – Lexington Volunteer Fire Dept. 2015

The intent of these specifications is to describe the minimum requirements for the purchase of a custom fire pumping apparatus to be used by the City of Lexington – Lexington Fire Department. Decisions regarding equal to or better than will be the sole responsibility of the City of Lexington/LVFD rather than those companies submitting bids.

<b>A. CHASSIS</b>	
<b>1. <u>Application</u></b>	
1.1	The apparatus shall not exceed 33 feet in overall length or 11 feet in overall height. <b><i>Meets Specifications:</i></b> Yes <input type="checkbox"/> No <input type="checkbox"/>
1.2	Chassis shall meet or exceed Spartan Gladiator chassis specifications. Sole source warranty is required. <b><i>Meets Specifications:</i></b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>2. <u>Engine</u></b>	
2.1	Cummins Diesel ISX12 400 hp. <b><i>No Exceptions</i></b> <b><i>Meets Specifications:</i></b> Yes <input type="checkbox"/> No <input type="checkbox"/>
2.2	An engine brake shall be provided with a high-low off control. <b><i>Meets Specifications:</i></b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>3. <u>Engine Enclosure</u></b>	
3.1	The inside of the engine enclosure shall have a sound deadening insulation system. <b><i>Meets Specifications:</i></b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>4. <u>Cooling System and Related Components</u></b>	
4.1	The engine cooling system shall be capable of maintaining engine manufacturer's recommended engine operating temperature during all load conditions. The engine cooling system shall meet all test requirements for performance required by the respective engine manufacturer. The radiator core shall be compatible with all commercial anti-freeze solutions. <b><i>Meets Specifications:</i></b> Yes <input type="checkbox"/> No <input type="checkbox"/>
4.2	The cooling system shall have a chemically charged water filter for protection of the radiator and engine. Silicone hoses shall be provided with spring loaded constant torque radiator hose clamps used on all main radiator hose connections. <b><i>Meets Specifications:</i></b> Yes <input type="checkbox"/> No <input type="checkbox"/>

<b>5. Exhaust System</b>	
5.1	The exhaust outlet shall be directed to the forward side of the rear wheels exiting the right side with a straight tip, designed to use with Plymovent (or equivalent) exhaust removal system. A heat absorbing sleeve shall be used on the exhaust pipe in the engine compartment area to reduce the heat, to protect the alternator, and also to protect hands when checking or adding oil in the engine compartment.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>6. Batteries</b>	
6.1	The battery system shall be a single system consisting of at least four negative grounds, 12 volt Group 31 batteries.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
6.2	There shall be a fuse protecting the pump primer, tilt pump and other options as required. There shall be a spare fuse and storage space inside the battery compartment.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
6.3	A Kussmaul Auto Charge (or equivalent) battery system charger super electric auto-eject with weatherproof cover and power interrupt shall be provided.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
6.4	An air compressor shall be provided to maintain air within the air brake system.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>7. Transmission</b>	
7.1	HD-4000 EVS Allison World automatic transmission, 5 or 6 speed. Shift module to be mounted to right of driver on console. Shift position indicator is to be indirectly lit for after dark operation. A gear lock-up shall be provided to hold transmission in direct drive for pump operation.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>8. Drive Line</b>	
8.1	Spicer 1710-HD series (or equivalent) bearing cap type with half round end for ease of changing.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>9. Axles</b>	
9.1	Axles shall be rated for apparatus weight to include crew, equipment, hose, and water plus 4,000 pounds and shall meet DOT and State of Nebraska laws.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
9.2	Rear axle speed shall be the maximum allowed by NFPA 1901.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>

<b>10. <u>Brakes</u></b>	
10.1	Vehicle shall be equipped with anti-lock disc brakes. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>11. <u>Tires and Wheels</u></b>	
11.1	Tires shall be Goodyear or Michelin radials to match axle and GVW ratings. Front tires shall be highway tread, single tubeless type. Wheels shall be disc type, hub piloted. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
11.2	Rear tires shall be traction tread, dual tubeless type. Wheels shall be disc type, hub piloted. Crossfire brand measuring system shall be installed on each set of dual tires. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
11.3	Mud flaps shall be provided for front and rear. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
11.4	Alcoa wheels shall be provided for the front and for the inside and outside of the rear wheels. The aluminum wheels shall match the tire and axle capacities of the apparatus. Chrome plated lug nut caps and hub covers shall be provided. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>12. <u>Tow Hooks – Front</u></b>	
12.1	There shall be two front tow hooks attached directly to the chassis frame. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>13. <u>Tow Eyes – Rear</u></b>	
13.1	There shall be at least one tow eye attached directly to the frame centered under the apparatus. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>14. <u>DEF Tank</u></b>	
14.1	If the apparatus is equipped with a diesel exhaust fluid tank it shall be mounted in such a place that is easily accessible to fill without the use of a funnel, and where any DEF fluid that is spilled may fall to the ground, or be easily washed down with soap and water. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>

<b>15. <u>Wheel Chocks</u></b>	
15.1	The NFPA-recommended number and size of wheel chocks shall be supplied with this apparatus. Ziamatic folding wheel chocks with holders shall be provided and mounted by manufacturer. <b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>
<b>B. CAB</b>	
<b>16. <u>Aluminum Cab</u></b>	
16.1	The apparatus chassis shall be of an engine forward, fully enclosed full tilt, 6-person cab design with 10-inch rear raised roof design. There shall be four side entry doors. <b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>
16.2	The cab shall be a fully open design with no divider wall or window separating the front and rear cab sections. <b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>
16.3	Plastic or vacu-formed door panels are not acceptable. <b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>
16.4	The cab interior shall have Zolatone (or equivalent) gray/black rubberized, mar-resistant, textured finish. <b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>
16.5	Rear exterior of cab is to be aluminum diamond plate. <b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>
<b>17. <u>Fender Crowns</u></b>	
17.1	Polished front axle fenderettes with full depth radiused wheel well liners shall be provided. <b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>
<b>18. <u>Grill</u></b>	
18.1	A stainless steel grill shall be provided. <b>No Exceptions</b> <b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>
<b>19. <u>Cab Insulation</u></b>	
19.1	The cab shall be insulated in a manner to reduce noise levels inside the cab. The cab interior sound levels shall not exceed 80 decibels at 45 mph in all cab seat positions. <b>Meets Specifications: Yes <input type="checkbox"/> No <input type="checkbox"/></b>



<b>20. <u>Doors</u></b>	
20.1	The door glass shall roll completely down. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
20.2	The cab doors shall have interior scuff guards at the bottom of each window to provide protection for the paint and interior. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>21. <u>Exterior Glass</u></b>	
21.1	The cab windshield shall be of a two piece design utilizing tinted, laminated, automotive approved safety glass and shall have a minimum area of 2,700 square inches. Dual sun visors shall be provided. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
21.2	The cab door and canopy windows shall utilize tinted, automotive approved safety glass. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
21.3	Two fixed position side windows shall be provided between the forward cab area and the crew cab area, one each side, and shall utilize tinted, tempered automotive approved safety glass. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
21.4	The rear cab wall shall have two windows that allow occupants to view traffic. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>22. <u>Cab Tilt System Mechanism</u></b>	
22.1	An electric over hydraulic cab tilt system shall be provided in order to facilitate the lifting of the cab to allow full access to the engine and accessories mounted under the cab. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
22.2	The lift system shall operate in a smooth and safe manner and shall include cylinder interlocks to ensure that the cab will remain in a fixed position in the event of a failure in the system. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
22.3	A manual backup pump shall be provided. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
22.4	One 12-volt work light with an automatic switch shall be installed in the chassis engine compartment illuminating when the cab is raised. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>

<b>23. <u>Air Horns</u></b>	
23.1	Two Grover Stutter tone (or equivalent) chrome plated, recess mounted in the bumper and controlled by lanyard in cab ceiling. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>24. <u>Cab Handrails</u></b>	
24.1	Four 24-inches long, 1¼-inch diameter polished aluminum rails shall be provided, one at each cab entrance. The single rubber coated grab handle shall be mounted on the officer-side inner windshield post. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>25. <u>Heater/Defroster/Air Conditioner</u></b>	
25.1	The condenser shall be roof mounted and have two heavy duty motors and a 44,000 BTU rating. This roof mounted condenser shall work at full rated capacity at an idle with no engine heat problems. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>26. <u>Instrument Panel</u></b>	
26.1	Driving compartment warning labels shall include: "HEIGHT, WIDTH, LENGTH, WEIGHT OF VEHICLE," and "DO NOT USE AUXILIARY BRAKING SYSTEMS ON WET OR SLIPPERY ROADS." <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
26.2	Akron/Weldon V-MUX multiplexing system with a Vista IV Interface shall be installed. Display panel will be labeled and arranged to mirror existing V-MUX display in use by the LVFD. Photographs to be supplied at pre-build meeting. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>27. <u>Interior</u></b>	
27.1	The following items will be supplied by the City of Lexington/LVFD and mounted by manufacturer in the cab, location to be determined at the pre-build meeting: <ul style="list-style-type: none"> <li>• Four Lightbox brand flashlights, shore line connected. Locations and details to be determined at the pre-build meeting:</li> <li>• Knox Box base.</li> <li>• Computer docking station, adjustable for different sized laptops, shoreline connected</li> <li>• Bracket for thermal imager, shoreline connected</li> <li>• Mounting provisions for two boxes of rubber gloves.</li> </ul> <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>

<b>28. <u>Lighting Cab Exterior</u></b>	
28.1	The headlights will have an alternating flash feature for emergency response use. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>29. <u>Hand Held Spotlight</u></b>	
29.1	One 400,000 candle power, minimum, hand held spotlight shall be provided, installed at officer's side of cab. Spotlight shall be mounted in a manner to eliminate damage or dislodging during normal operations. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>30. <u>Lighting Cab Interior</u></b>	
30.1	There shall be a red cab interior light with an integral switch located above the officer's seat and two red crew cab interior lights with integral switches, equally spaced in the cab ceiling to alleviate blinding driver at night. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
30.2	There will be a "goose neck" map light on the officer's side of the cab dash. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>31. <u>Mirrors</u></b>	
31.1	Two chrome plated, remote adjustable, 2-piece breakaway mirrors shall be provided. The lower section of these mirrors shall be wide angle, adjustable and braced for least amount of vibration. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
31.2	Mirrors shall be heated. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>32. <u>Seating</u></b>	
32.1	The driver's seat shall be a Bostrom air ride high back with adjustable back rest and adjustable fore and aft. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
32.2	Officer's seat shall be a Bostrom Tanker II with SCBA brackets with a Bostrom Secure All SCBA locking system. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
32.3	The crew cab shall have four Bostrom Tanker II seats, two rear facing and two forward facing, inboard mounted. Each crew seat shall be provided with SCBA brackets with a Bostrom Secure All SCBA locking system. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>

<b>33. <u>Steering</u></b>	
33.1	Steering column shall have tilt and telescopic adjustment. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>34. <u>Front Bumper</u></b>	
34.1	Bumper shall be extended and have room to store up to 150 feet of 1¾-inch attack line. Bumper will contain one 2.5-inch swivel discharge for the attack line stored in the front bumper. Provisions will be made to prevent cab damage from bumper equipment when cab is raised. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>35. <u>Camera</u></b>	
35.1	A remote color camera shall be provided to assist in backing the apparatus. The display shall be incorporated into V-MUX display. (see 26.2) <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>C. PUMP AND ACCESSORIES</b>	
<b>36. <u>Pump</u></b>	
36.1	The fire pump shall be Midship mounted 1500 gpm Hale QMAX pump (or equivalent) with stainless steel plumbing and brass body, stainless steel valves. <b>No Exceptions</b> <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
36.2	The priming pump, priming valve and piping assembly shall be included in the pump assembly. The priming pump shall be an oil-less, electrically driven rotary vane pump mounted firmly within the pump area. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
36.3	There shall be a thermal relief valve installed which discharges water to the atmosphere. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
36.4	Victallic connections shall be used to facilitate ease of maintenance and to compensate for vibration. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>37. <u>Steamer Suction Inlets</u></b>	
37.1	There shall be one 6-inch male steamer inlet on the driver and officer side of the apparatus. The suction fitting shall include a removable die cast zinc screen to provide cathodic protection for the pump thus reducing corrosion. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>

37.2	Each inlet shall have 5-inch Storz connections. There shall be an electric valve control with manual override for each master intake. Each inlet shall have a quarter-turn bleeder valve located with the valve control on the pump panel and shall discharge directly to the ground.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>38. <u>Gated Suction Inlets</u></b>	
38.1	There shall be two 2½-inch gated intakes to be operated from the ground.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
38.2	All suction valves shall be Hale (or equivalent) stainless quarter-turn full flow, swing-out type with positive Tork-Lok trunnions.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
38.3	Intakes shall have a removable or accessible strainer provided inside each external intake.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
38.4	Driver side 2.5-inch intake shall have a 3-inch Storz adapter with cap installed.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>39. <u>Pump Discharges</u></b>	
39.1	All discharge valves shall be Hale (or equivalent) stainless steel, 8-bolt, quarter-turn, swing-out type with positive Tork-Lok trunion.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
39.2	All discharges that are 2 inches or larger shall be equipped with 30 degree downward pointing chrome elbow.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
39.3	All discharges, not designated as a pre-connect, shall have a chrome cap and chain attached.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
39.4	All 2½-inch discharges shall discharge 500 gpm, minimum, unless otherwise stated.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>40. <u>Side Discharges</u></b>	
40.1	There shall be two 2½-inch NST discharges with chrome reducers/adapters with 1½-inch chrome caps and chains on left side of the pump compartment.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>

40.2	There shall be two 2½-inch NST discharges with chrome reducers/adapters with 1½-inch chrome caps and chains on right side of the pump compartment.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>41. <u>Front Bumper Discharge</u></b>	
41.1	There shall be one 2½-inch NST discharge, forward facing, with chrome reducer/adaptor with 1½-inch chrome cap and chain.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>42. <u>Rear Discharges</u></b>	
42.1	There shall be two 2½-inch NST discharges located at the rear of the apparatus.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>43. <u>Booster Reel</u></b>	
43.1	There shall be one stainless Hannay booster reel mounted in the right rear lower side compartment. It shall be plumbed with 1½-inch piping to the side of the pump and controlled from the operator's panel. 150 feet of 1-inch lightweight non collapsible booster hose shall be installed on the reel, with an Akron turbojet Model 1701 nozzle attached. This hose shall allow water to be discharged regardless of length of hose deployed off of the reel.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
43.2	The reel shall be mounted in a lengthwise position accessible nearest the right rear lower compartment door with the rewind button located in the upper left corner inside of the door. The door shall be attached to apparatus with hinges and include a 2-piece door to facilitate hose reel use. There shall be a clip type nozzle holder supplied and mounted.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
43.3	Nozzle blow out. Booster hose shall have a valve on the pump panel to blow water out of the booster hose.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>44. <u>Crosslay Preconnect Hose Bed</u></b>	
44.1	Pre-connects shall have 90 degree elbow type swivel on discharge outlets. There shall be flooring installed under the hose beds for ventilation and drainage.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
44.2	Three stainless steel rollers shall be installed at each end of each hose bed to facilitate deployment of hose. Each hose bed shall be open in front of the pump operator to facilitate loading of hose.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>

44.3	There shall be three cross lays below operators pump panel, capable of holding 250 feet of 2½-inch hose each with a zero torque nozzle attached. Cross lays shall have valves and piping with a capacity for 500 gpm through 2½-inch hose. One shall be color coded red, one yellow and one white. Two 2½-inch to 1½-inch reducer shall be supplied for these pre-connects.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>45. <u>Deck Gun</u></b>	
45.1	There will be an Akron Apollo Model 3433 High Rise monitor or equivalent mounted, which elevates 24 inches above the base, mounted above the pump. This will be connected to the riser and will be removable and remotely operated. Quad stacked tips, stream shaper and portable base will be provided. The monitor base shall be mounted beside the monitor.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>46. <u>Water Tank</u></b>	
46.1	The water tank shall have a capacity of 600 to 750 U.S. gallons. The tank shall be designed to allow for maximum storage in the lower side compartments and low hose bed height. Discuss and confirm at pre-build meeting.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
46.2	The fill opening shall be at least 8 inches by 8 inches with a hinged lid and pop open release latch so the lid will self-open if the tank is filled at an excess rate. A removable screen shall be located in the fill tower to prevent foreign objects from falling into the tank.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
46.3	THE TANK SHALL HAVE AN ALL OUT NO FAULT LIFETIME WARRANTY WITH 48 HOUR SERVICE RESPONSE. The warranty shall require no future purchases on the part of the Fire Department or visual inspections in order for it to be validated.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>47. <u>Water Tank Level Gauge</u></b>	
47.1	The tank level gauge shall have an LED display
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
47.2	Tank level lights shall be provided on both the left and right sides of the pump panel or body. There shall be two LED Whelen narrow strip (1 inch by 11½ inch) tank level gauges mounted one each side. Location will be determined at pre-build meeting.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

<b>48. <u>FoamPro System</u></b>	
48.1	There shall be a FoamPro foam injection system on this apparatus and shall be plumbed to all three pre-connects and front bumper discharge. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>49. <u>Polypropylene Foam Tank</u></b>	
49.1	There shall be two 20-gallon polypropylene foam tanks located in front of the hose bed with 3/4-inch drain valve at the lowest point in the tanks. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
49.2	There shall be one foam tank selector switch installed on the pump operator's panel. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
49.3	There shall be two FoamPro remote fills installed with automatic shut-off when cell is full. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>50. <u>Foam Tank Level Gauge</u></b>	
50.1	There shall be two foam gauges with LED display. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>51. <u>Pump Compartment Shielding and Heater</u></b>	
51.1	The pump compartment shall have a heat pan installed to help keep the pump from freezing in the winter while traveling to and from a fire scene. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
51.2	There shall be a pump compartment heater with sufficient BTUs to keep the pump from freezing while traveling to and from the fire scene, and operating in subzero temperatures. The control switch shall be located on the pump panel. The switch shall be marked "PUMP HEATER." <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>52. <u>Pump Controls and Panel</u></b>	
52.1	Operator's control panel shall be above the pump, accessible from the center walkway directly in front of the pump. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
52.2	All valve control levers and instruments shall be neatly arranged for easy access and visibility from the operator's location. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>



52.3	There shall be a manual pump shift, positioned to be operated from ground level. Location will be determined at pre-build meeting.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
52.4	The bezels shall be color coded and shall be labeled "OPEN" and "CLOSED."
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
52.5	There shall be access doors provided on each side of the body to allow full access into the pump area.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
52.6	There shall be a gauge for each discharge.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
52.7	There shall be one FRC INCONTROL pressure governor and shall be located so that it can be easily controlled from the pump operator's position with all gauges in full view.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
52.8	There shall be a digital temperature gauge mounted on the pump panel in close proximity to "Pump Overheat" light with a label stating "Keep below 120 degrees." The temperature sender shall be attached to the pump housing discharge to monitor the pump temperature.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
52.9	A permanent plate shall be mounted on the pump operator's panel specifying the quantity and type of the following fluids used in the apparatus for normal maintenance: 1. Pump transmission fluid 2. Foam tank "A" capacity 3. Foam tank "B" capacity
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
52.10	A push button shall be mounted on the pump panel that operates the air horns on the apparatus body. It shall be red in color and surrounded with a red bezel and marked "AIR HORN."
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>D. APPARATUS BODY</b>	
<b>53. <u>Body Construction / Compartmentation</u></b>	
53.1	All body compartments and sides shall be fabricated of aluminum or stainless steel.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
53.2	The interior of the compartments shall be finished with swirl pattern aluminum.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>

53.3	<p>The fenders shall be integral with the sides of the body. Fender wells shall be constructed with full circular inner liners for ease of cleaning and maintenance. Sufficient clearance shall be provided to allow the use of tire chains when the apparatus is fully loaded.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
53.4	<p>There shall be two polished rear fenderettes, one each side. The fenderettes shall be bolted to the apparatus body.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
53.5	<p>The side compartments shall have sweep out type floors. All the compartments shall be made to the largest practical dimensions to provide maximum storage capacity.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
53.6	<p>Compartment doors shall be ROM (or equivalent) rollup doors installed on the compartment face. The doors shall be a shutter type with 34 millimeter slats that roll onto a spool at the top of the compartment. Each slat shall be equipped with nylon end shoes to assure operation without the need of constant lubrication. The rollup doors shall have a satin finish. The roll up doors shall be supplied with a full width lift bar and finger pull handle integrated into the bottom rail for easy one-hand operation.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
53.7	<p>Each body compartment shall be properly vented in a manner that will minimize the amount of dirt and water that may enter the compartment.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
53.8	<p>All compartments, including the pump compartment, shall be furnished with lighting to fully illuminate the entire compartment unless otherwise specified. Each compartment light shall be activated by an automatic door switch.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
53.9	<p>All compartment floors that do not have permanently mounted equipment shall be protected with Dri-Dek tiles (or equivalent).</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
53.10	<p>There shall be a C channel rub rail on both sides of the apparatus with white reflective striping inside the rail.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
<b>54. <u>Generator and Related Equipment</u></b>	
54.1	<p>An Onan brand hydraulic generator (or equivalent) shall be installed. The minimum rated output shall be 10 KW, 83/42 amps at 120/240 volts. Current frequency shall be stable at 60 hertz. The generator shall be powered by a PTO drive on the truck transmission and shall be activated by a hot shift PTO switch on the cab dash. The PTO shall be capable of being operated while in "Drive."</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>

54.2	<p>A circuit breaker box with twelve standard breakers shall be provided. All circuits in the breaker panel shall be equipped with 20A (amp) breakers minimum.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
54.3	<p>A 120 volt outlet with weatherproof cover shall be provided. All 120 volt wiring shall be installed in liquid-tight conduit.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
54.4	<p>There shall be two Hannay (or equivalent) electric rewind cable reels furnished and mounted, in pump compartment. A push button labeled REEL REWIND shall be installed for 12 volt rewinding of the cord reel. Rollers shall be supplied to prevent damage to the electrical cable if pulled in any direction. The reel shall be equipped with 200 feet of 12/3, minimum, Neoprene or Seoprene water-resistant (SOW) yellow jacketed cable, installed with a cable stop to prevent damage to cable fittings.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
54.5	<p>Two 4-way lighted receptacle boxes shall be provided and hard wired to the end of the cable. There shall be two duplex 20 amp receptacles and two twist lock receptacles to match tripod light, per box.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
<b>55. <u>Ground Ladders</u></b>	
55.1	<p>Duo-Safety Ladders:  One 10 foot folding ladder, Series 585A  One 14 foot roof ladder, Series 775A  One 24 foot 2-section extension ladder, Series 900A</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
<b>56. <u>Left Side Compartments</u></b>	
56.1	<p>There shall be one full height compartment ahead of the rear wheels. Minimum dimensions of: 61.5 inches in height by 32 inches in width by 13 inches (upper) and 24 inches (lower) in depth. The upper portion depth of this compartment will extend to the hose bed. The lower portion depth will extend to chassis frame. There shall be two full depth adjustable shelves in the upper portion of the compartment. There shall be permanently mounted tool box type drawers in the lower portion of the compartment. These drawers shall be large enough to hold 2½-inch nozzles, hand tools and other assorted firefighting tools in a secure and organized manner. This compartment shall have a door opening to maximize usable storage space. This compartment shall have a roll-up door that meet specifications listed in 53.6.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>

56.2	There shall be one high side compartment. Minimum dimensions of: 44 inches in height by 60 inches in width by 13 inches in depth. Compartment shall have a roll-up door that meet specifications listed in 53.6. This compartment will be used to store MSA SCBA. There shall be a minimum of three walk-away type air pack brackets installed in this compartment. There shall be a mounting strut centered vertically on the left and right side walls.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
56.3	There shall be one full height compartment behind the rear wheels. Minimum dimensions of: 60 inches in height by 44 inches in width by 14 inches (upper) in depth. The upper portion will extend to the hose bed. There shall be two full depth adjustable shelves in the upper portion of the compartment. If the Little Giant ladder cannot be mounted on the ladder rack it shall be mounted in this compartment.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>57. <u>Right Side Compartments</u></b>	
57.1	There shall be one low compartment ahead of the rear wheels. Minimum dimensions of: 29 inches in height by 32 inches in width by 24 inches in depth. There shall be one full depth adjustable shelf provided. This compartment shall have a roll-up door that meet specifications listed in 53.6.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
57.2	There shall be two high side compartments, one on each side of the hydraulic ladder rack. Each compartment shall have minimum dimensions of: 31 inches in height by 56 inches in width by 13 inches in depth. The rear high compartment shall have one full depth adjustable shelf. The right front high compartment shall have two mounting struts mounted horizontally. There shall be a mounting strut centered vertically on the left and right side walls. The right front high compartment shall have brackets installed for three fire extinguishers. Brackets provided for the fire extinguishers shall be of type specified at the pre-build meeting by the City of Lexington/LVFD.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
57.3	There shall be one low compartment behind the rear wheels. Minimum dimensions of: 29 inches in height by 48 inches in width by 24 inches in depth. The compartment shall be sufficient to accommodate the permanent lengthwise mounting of the Hannay booster reel (see 43.1). This compartment shall have horizontal drop door rails, to slide into the top of the compartment. This compartment shall have a roll-up door that meet specifications listed in 53.6.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>58. <u>Ladder Rack</u></b>	
58.1	There shall be a single arm hydraulic ladder rack on the right side of the apparatus designed to hold the ladders delivered with the apparatus and a Little Giant Type 1A ladder, if possible. The top of these ladders shall not exceed 72 inches when lowered.
<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	

58.2	Safety switches shall be installed in the right side compartments that disable the ladder rack when a compartment is opened.
<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>	
<b>59. <u>Rear Compartments</u></b>	
59.1	There shall be one low compartment. Minimum dimensions of: 35 inches in height by 49 inches in width by 35 inches in depth. This compartment shall have a ROM (or equivalent) roll-up door (see 53.6) and pull-out drawer, rated at 500-pound capacity minimum, capable of holding the following: <ol style="list-style-type: none"> <li>1. Positive Pressure Fan</li> <li>2. Negative Pressure Fan</li> <li>3. Ventilation Saw</li> <li>4. K-12 style Vent Saw</li> </ol>
<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>	
59.2	There shall be three pike pole tubes accessible from ground level. They will be able to hold the following length pike poles: one 6-foot, one 8-foot, and one 12-foot.
<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>	
<b>60. <u>Shelves</u></b>	
60.1	All shelves shall be constructed of heavy gauge aluminum sheet. The shelves shall be fabricated in such a manner that liquids readily drain when spilled on shelves. The floor of each shelf shall be covered with Dri-Dek flooring tiles (or equivalent) to provide drainage and ventilation of equipment. Each shelf shall have a 1-inch lip to keep material from sliding off the shelves.
<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>	
<b>61. <u>Air Bottle Storage Compartments</u></b>	
61.1	There shall be a minimum of six air bottle compartments constructed using material to protect the SCBA bottle. The air bottle compartment shall each have an aluminum vertically hinged door with a push button latch on the face and be of sufficient depth to store a SCBA bottle 24 inches in total length. They shall have three located on LH side of body and three located on RH side of body in wheel well area.
<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>	
<b>62. <u>Hose Bed</u></b>	
62.1	The hose bed compartment shall be capable of holding 1,500 feet of 5-inch hose, 900 feet of 3-inch hose.
<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>	
62.2	The floor of the hose bed compartment shall be vented for water drainage and removable for cleaning and shall not be more than 72 inches from the ground. Every feasible attempt shall be made to keep the hose bed height as low as possible.
<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>	

62.3	<p>There shall be two adjustable hose bed partitions with integral grab handle.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
62.4	<p>There shall be two removable cartridges on the right side of the hose bed. These cartridges will be stacked. Each cartridge shall be capable of holding 200 feet of 2 ½ inch hose with nozzle. These cartridges will fit into designated compartments to facilitate reloading of hose.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
62.5	<p>There shall be a hard hose bed cover.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
<b>63. <u>Hard Suction Hose</u></b>	
63.1	<p>There shall be two hard suction hoses mounted above the left side compartments outside the hose bed in enclosed sleeves. The following equipment shall be supplied by Body Builder at the time of delivery:</p> <ul style="list-style-type: none"> <li>• Two 6 inches by 10 foot lengths of flexible clear PVC hard suction hose with 5-inch Storz connections, supplied with gaskets designed for drafting operations.</li> <li>• One low level strainer with jet assist and a 5-inch Storz connection.</li> </ul> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
<b>64. <u>Running Boards, Walkways and Overlays</u></b>	
64.1	<p>All horizontal surfaces shall be slip resistant.</p> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>
<b>65. <u>Hand Rails, Grab Rails and Steps</u></b>	
65.1	<p>Hand rails shall be constructed of ribbed extruded aluminum of not less than 1¼ inches in diameter. All railing escutcheons and brackets shall be stainless steel or chrome plated, and shall be bolted to the body with stainless steel bolts. The lower bracket on all vertical handrails shall have a drain hole drilled in it at the lowest point. Hand rails shall be provided in the following areas:</p> <ul style="list-style-type: none"> <li>• Grab handle on top of catwalk on the left side of the apparatus in front of the tank fill tower.</li> <li>• Horizontal hand rail in front of operator’s control levers.</li> <li>• Entrance on each side of pump compartment.</li> <li>• Horizontal intermediate rear hand rail.</li> <li>• Rear vertical hand rail from top of body to rear step.</li> <li>• Short hand rail at the top of hose bed on the left side.</li> <li>• Short hand rail at the top of hose bed on the right side.</li> <li>• Two polished aluminum steps with light on the left front compartment.</li> <li>• Two polished aluminum steps with light on the right front compartment.</li> <li>• Four aluminum corner steps, two on each rear corner of the body.</li> </ul> <p><b>Meets Specifications:</b>    <b>Yes</b> <input type="checkbox"/>    <b>No</b> <input type="checkbox"/></p>

<b>66. <u>Center Walkway</u></b>	
66.1	There shall be two compartments below the center walkway, one on each side. The compartments shall extend in depth to the chassis frame. These compartments shall have treadbrite doors.
	<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>
<b>67. <u>Electrical System</u></b>	
67.1	All applicable lighting shall be LED.
	<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>
67.2	The rear tail/stop, directional (turn amber arrow), and backup lights will be rectangular tricluster lights mounted on the rear body panels. The tricluster lights shall be mounted in polished aluminum housings.
	<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>
67.3	Clearance lights and reflectors to comply with I.C.C. regulations shall be supplied.
	<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>
67.4	A complete electrical schematic for the apparatus shall be provided. This schematic shall be specifically prepared for this individual unit rather than a generic schematic designed to accommodate all apparatus.
	<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>
67.5	There shall be lights supplied on the pump operator's panel, side discharge panels, and one light in the pump compartment. The pump operator's panel and side discharge lights shall be activated when the parking brake is engaged and the pump compartment light shall be activated by an automatic switch in the pump compartment access door.
	<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>
67.6	Lights shall be mounted in a manner that illuminates all walkways and steps for safe operation of the apparatus. These lights shall be activated when the parking brake is engaged.
	<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>
67.7	There shall be a switch at the rear of the apparatus to activate the back-up lights when the parking brake is set. This switching circuit shall be deactivated when the parking brake is released.
	<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>
67.8	An electronic back-up alarm shall be installed and wired so as to alert personnel any time the transmission is shifted into reverse gear.
	<b>Meets Specifications:</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>

67.9	All chassis electrical system connections shall be solder type with heat shrink tube, or weathertite, covering. No crimp type connectors are to be used. <b>No Exceptions</b>
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
67.10	Lights in all body compartments shall be activated by an automatic door switch.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
67.11	There shall be a master electrical module on the chassis dash for all emergency light switches, master switches and gauges. The electrical module shall be vinyl covered.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
67.12	A flush mount Auto Eject 110/120 volt shore line receptacle shall be installed on the left side of the chassis cab by the driver's door.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>68. Lighting Equipment</b>	
68.1	Lights shall be provided to illuminate the hose bed loading area. Lights shall operate when the hose bed cover is open.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
68.2	There shall be two telescoping 1,500 watt quartz halogen lights with mounting brackets. The lights shall be mounted on the rear outer corner of the cab, enabling them to be raised by the operator. Please quote equivalent LED fixtures as an option.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
68.3	There shall be two Extenda-Lite Model EXT (or equivalent) 1,500 watt detachable tripod lights and brackets located on the tailboard. Please quote equivalent LED fixtures as an option and attach as an addendum.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
68.4	All light switches shall be activated at that light's location.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>69. Warning Equipment</b>	
69.1	There shall be one Federal PA300M electronic siren (or equivalent) with microphone supplied. Siren speaker shall be provided and mounted under the bumper.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
69.2	Emergency warning lighting shall consist of a LED Emergency Lighting Package.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
69.3	The light bar on the cab will have alley lights on the left and right side.
	<b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>



69.4	There shall be an arrow stick, recess mounted, below the hose bed. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
69.5	Wig Wag headlight control shall be wired into the master emergency lights. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
69.6	There shall be an electric Federal Q2B siren installed. The siren shall be securely mounted and activated by means of a solenoid and shall include a brake. Siren shall have power supplied only when emergency lights are activated. A siren foot switch shall be provided for the driver and officer, one on each side of the cab floor. This siren shall be mounted in or on the front bumper, allowing the front attack line to be deployed to either side and allowing the cab to tilt forward. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>E. PAINTING, LETTERING AND STRIPING</b>	
<b>70. Requirements</b>	
70.1	After the cleaning process, the body and its components shall be primed with automotive primer and all seams shall be sealed with an automotive sealer. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
70.2	All bright metal fittings, if unavailable in stainless steel, shall be heavily chrome plated. Iron fittings shall be copper under plated prior to chrome plating. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
70.3	The apparatus shall be coated with an automotive type undercoating when the apparatus is completed. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
70.4	The apparatus shall be painted with Axalta Imron (or equivalent) White paint. The paint shall match the color of the Department's other apparatus, to be determined at a pre-build meeting. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
70.5	All lettering will be discussed and confirmed at the pre-bid meeting. A lettering allowance will be considered. <b>Meets Specifications:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>

## F. ADDITIONAL REQUIREMENTS

### 71. Special Labels

- 71.1 A permanent plate shall be mounted in the driver's compartment specifying the quantity and type of the following fluids used in the apparatus for normal maintenance:
1. Engine oil
  2. Engine coolant
  3. Transmission fluid
  4. Drive axle fluid

**Meets Specifications:** Yes  No

- 71.2 All appropriate labels to ensure safe operation of the apparatus shall be permanently affixed in conspicuous locations.

**Meets Specifications:** Yes  No

### 72. Warranties

- 72.1 The following minimum warranties will be supplied:
1. The apparatus warranted to be free from mechanical defects in workmanship for a period of one year. The apparatus will be covered for parts and labor cost associated with repairs for a period of one year.
  2. Life-time warranty on the frame.
  3. One year warranty on paint.
  4. One year body structural warranty.
  5. One year cab structural warranty.
  6. One year warranty on undercoating.
  7. Manufacture's warranties for all major components.

**Meets Specifications:** Yes  No

