



JEFFERSON COUNTY PURCHASING DEPARTMENT
Douglas Anderson III, Purchasing Agent

1149 Pearl Street, Beaumont, TX 77701 409-835-8593 Fax 409-835-8456

LEGAL NOTICE
Advertisement for Invitation for Bids

May 12, 2008

Notice is hereby given that sealed bids will be accepted by the Jefferson County Purchasing Division for IFB 08-063/JN. **Specifications for this project may be obtained from the website, <http://www.co.jefferson.tx.us>, or by calling 409-835-8593.**

Bids are to be addressed to the Purchasing Agent with the bid number and name marked on the outside of the envelope. Bidders shall forward an original and two (2) copies of their bid to the address shown below. Late bids will be rejected as non-responsive. Bids will be publicly opened and read aloud in the Jefferson County Commissioners' Courtroom at the time and date below. Bidders are invited to attend the sealed bid opening.

BID NAME: Airport Fire/Tanker Truck (ARFF truck)
BID NO: IFB 08-063/JN
DUE DATE/TIME: 11:00 AM, June 2, 2008
MAIL OR DELIVER TO: Jefferson County Purchasing Division
1149 Pearl Street, 1st Floor
Beaumont, Texas 77701

Any questions relating to these requirements should be directed to Joe Newkirk, Contract Specialist, at 409-835-8593.

All interested firms are invited to submit a bid in accordance with the terms and conditions stated in this bid.

RESPONDENTS ARE STRONGLY ENCOURAGED TO CAREFULLY READ THE ENTIRE INVITATION.

Douglas Anderson III
Purchasing Agent
Jefferson County, Texas

Publish: Beaumont Enterprise – May 14 & 21, 2008
Port Arthur News – May 14 & 21, 2008

**IFB 08-063/JN
AIRPORT FIRE/TANKER TRUCK (ARFF truck)
BIDS DUE: 11:00 AM, MAY 12, 2008**

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INSTRUCTIONS TO BIDDERS

1. Bid Submission

Bids must be submitted in complete original form by mail or messenger to the following address:

Jefferson County Purchasing Division
1149 Pearl Street, First Floor
Beaumont, TX 77701

Bids will be accepted at the above address until the time and date specified herein, and immediately after will be publicly opened and read aloud.

All bids shall be tightly sealed in an opaque envelope and **plainly marked with the Invitation for Bid number**, due date, and the bidder's name and address.

Late bids will not be accepted and will be returned unopened to the bidder.

All bids submitted in response to this invitation shall become the property of Jefferson County and will be a matter of public record available for review.

2. Preparation of Bids

The bid shall be legibly printed in ink or typed.

If a unit price or extension already entered is to be altered, it shall be crossed out and initialed in ink by the bidder.

The bid shall be legally signed and shall include the complete address of the bidder.

Jefferson County is exempt from Federal and State Sales Taxes, and such taxes shall not be included in bid prices.

3. Signatures

All bids, notifications, claims, and statements must be signed by an individual authorized to bind the bidder. The individual signing certifies, under penalty of perjury, that he or she has the legal authorization to bind the bidder.

4. Rejection or Withdrawal

Submission of additional terms, conditions or agreements with the bid document are grounds for deeming a bid non-responsive and may result in bid rejection. Jefferson County reserves the right to reject any and all bids and to waive any informalities and minor irregularities or defects in bids. Bids may be withdrawn in person by a bidder or authorized representative, provided their identity is made known and a receipt is signed for the bid, but only if the withdrawal is made prior to the time set for receipt of bids. Bids are an irrevocable offer and may not be withdrawn within 90 days after opening date.

5. Award

The bid will be awarded to the responsible, responsive bidder(s) whose bid, conforming to the solicitation, will be most advantageous to Jefferson County – price and other factors considered. Unless otherwise specified in this IFB, Jefferson County reserves the right to accept a bid in whole or in part, and to award by item or by group, whichever is deemed to be in the best interest of Jefferson County. Any bidder who is in default to Jefferson County at the time of submittal of the bid shall have that bid rejected. Jefferson County reserves the right to clarify any contractual terms with the concurrence of the Contractor; however, any substantial nonconformity in the offer, as determined by Jefferson County, shall be deemed non-responsive and the offer rejected.

In evaluating bids, Jefferson County shall consider the qualifications of the bidders, and, where applicable, operating costs, delivery time, maintenance requirements, performance data, and guarantees of materials and equipment. In addition, Jefferson County may conduct such investi-

gation as it deems necessary to assist in the evaluation of a bid and to establish the responsibility, qualifications, and financial ability of the bidders to fulfill the contract.

Jefferson County reserves the right to award this contract on the basis of **lowest and best bid** in accordance with the laws of the State of Texas, to waive any formality or irregularity, to make awards to more than one offeror, and/or to reject any or all bids. In the event the lowest dollar offeror meeting specifications is not awarded a contract, Offeror may appear before the Commissioners' Court and present evidence concerning Offeror responsibility after officially notifying the Office of the Purchasing Agent of Offeror's intent to appear.

6. Contract

A response to an IFB is an offer to contract with Jefferson County based upon the terms, conditions, and specifications contained in the IFB. Bids do not become contracts unless and until they are executed by Jefferson County, eliminating a formal signing of a separate contract. For that reason, all of the terms and conditions of the contract are contained in the IFB, unless any of the terms and conditions is modified by an IFB Amendment, a Contract Amendment, or by mutually agreed terms and conditions in the contract documents.

7. Waiver of Subrogation

Bidder and bidder's insurance carrier waive any and all rights whatsoever with regard to subrogation against Jefferson County as an indirect party to any suit arising out of personal or property damages resulting from bidder's performance under this agreement.

8. Fiscal Funding

A multi-year contract (if requested by the specifications) continuing as a result of an extension option must include fiscal funding out. If, for any reason, funds are not appropriated to continue the contract, said contract shall become null and void.

9. Bid Results

Bid results are not provided in response to telephone inquiries. A preliminary tabulation of bids received will be posted on the Purchasing web page (<http://co.jefferson.tx.us/purchasing/main.htm>) as soon as possible following bid opening. A final tabulation will be posted following bid award, and will also be available for review in the Purchasing Division.

10. Changes and Addenda to Bid Documents

Each change or addendum issued in relation to this IFB document will be on file in the Office of the Purchasing Agent. In addition, to the extent possible, copies will be mailed to each person registered as having received a set of bid documents. It shall be the bidder's responsibility to make inquiry as to change or addenda issued. All such changes or addenda shall become part of the contract and all bidders shall be bound by such addenda. Information on all changes or addenda issued will be available at the Office of the County Purchasing Agent.

11. Specifications

Unless otherwise stated by the bidder, the bid will be considered as being in accordance with Jefferson County's applicable standard specifications, and any special specifications outlined in the bid document. References to a particular trade name, manufacturer's catalogue, or model number are made for descriptive purposes to guide the bidder in interpreting the requirements of Jefferson County, and should not be construed as excluding bids on other types of materials, equipment, and supplies. However, the bidder, if awarded a contract, will be required to furnish the particular item referred to in the specifications or description unless departure or substitution is clearly noted and described in the bid. Jefferson County reserves the right to determine if equipment/ product being bid is an acceptable alternate. All goods shall be new unless otherwise so stated in the bid. Any unsolicited alternate bid, or any changes, insertions, or omissions to the terms and conditions, specifications, or any other requirements of the bid, may be considered non-responsive.

12. Delivery

Bids shall include all charges for delivery, packing, crating, containers, etc. Unless otherwise stated by the bidder, prices bid will be considered as being based on F.O.B. delivered, freight included.

13. Interpretation of Bid and/or Contract Documents

All inquiries shall be made within a reasonable time prior to the date and time fixed for the bid opening, in order that a written response in the form of an addendum, if required, can be processed before the bids are opened. Inquiries received that are not made in a timely fashion may or may not be considered.

14. Currency

Prices calculated by the bidder shall be stated in U.S. dollars.

15. Pricing

Prices shall be stated in units of quantity specified in the bid documents. In case of discrepancy in computing the amount of the bid, the unit price shall govern.

16. Notice to Proceed/Purchase Order

The successful bidder may not commence work under this contract until authorized to do so by the Purchasing Agent.

17. Certification

By signing the offer section of the Offer and Acceptance page, bidder certifies:

- The submission of the offer did not involve collusion or other anti-competitive practices.
- The bidder has not given, offered to give, nor intends to give at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to any public servant in connection with the submitted offer.
- The bidder hereby certifies that the individual signing the bid is an authorized agent for the bidder and has the authority to bind the bidder to the contract.

18. Definitions

“County” – Jefferson County, Texas.

“Contractor” – The bidder whose proposal is accepted by Jefferson County.

19. Minority-Women Business Enterprise Participation

It is the desire of Jefferson County to increase the participation of Minority (MBE) and women-owned (WBE) businesses in its contracting and procurement programs. While the County does not have any preference or set aside programs in place, it is committed to a policy of equitable participation for these firms.

GENERAL TERMS AND CONDITIONS OF BIDDING AND TERMS OF CONTRACT

By execution of this document, the vendor accepts all general and special conditions of the contract as outlined below and in the specifications and plans.

1. Bidding

1.1 Bids

All bids must be submitted on the bid form furnished in this package.

1.2 Authorized Signatures

The bid must be executed personally by the vendor, duly authorized partner of the partnership, or duly authorized officer of the corporation. If executed by an agent, a power of attorney or other evidence of authority to act on behalf of the vendor shall accompany the bid to become a valid bid.

1.3 Late Bids

Bids must be in the office of the Jefferson County Purchasing Agent before or at the specified time and date bids are due. Bids received after the submission deadline shall be rejected as non-responsive and returned unopened.

1.4 Withdrawal of Bids Prior to Bid Opening

A bid may be withdrawn before the opening date by submitting a written request to the Purchasing Agent. If time allows the bidder may submit a new bid. Bidder assumes full responsibility for submitting a new bid before or at the specified time and date bids are due. Jefferson County reserves the right to withdraw a request for bids before the opening date.

1.5 Withdrawal of Bids after Bid Opening

Bidder agrees that its offer may not be withdrawn or cancelled by the vendor for a period of ninety (90) days following the date and time designated for the receipt of bids unless otherwise stated in the bid and/or specifications.

1.6 Bid Amounts

Bids shall show net prices, extensions where applicable and net total. In case of conflict between unit price and extension, the unit price will govern. Any ambiguity in the bid as a result of omission, error, unintelligible or illegible wording shall be interpreted in the favor of Jefferson County.

1.7 Exceptions and/or Substitutions

All bids meeting the intent of the specifications and plans will be considered for award. Vendors taking exception to the specifications and plans, or offering substitutions, shall state these exceptions in the section provided. If bid is made on an article other than the one specified, which a bidder considers comparable, the name and grade of said article must be specified in the bid and sufficient specifications and descriptive data must accompany same to permit thorough evaluation. The absence of stated exceptions and/or substitutions shall indicate that the vendor has not taken any exceptions to the specifications and shall be responsible to perform in strict accordance with the specifications. As a matter of practice, Jefferson County rejects exception(s) and /or substitutions as non-responsive but reserves the right to accept any and/or all of the exception(s) and/or substitution(s) deemed to be in the best interest of Jefferson County.

1.8 Alternates

The Invitation for Bid and/or specifications may expressly allow bidder to submit an alternate bid. Presence of such an offer shall not be considered an indication of non-responsiveness.

1.9 Descriptions

Unless otherwise specified, any reference to make, manufacturer and/or model used in the bid specifications is merely descriptive and not restrictive, and is used only to indicate type, style, or quality of material desired.

1.10 Bid Alterations

Bids cannot be altered or amended after submission deadline. Any interlineations, alterations, or erasures made before opening time must be initialed by the signer of the bid, guaranteeing authenticity.

1.11 Tax Exempt Status

Jefferson County is exempt from federal excise tax and state sales tax. Unless the bid form or specifications specifically indicate otherwise, the bid price must be net, exclusive of above-mentioned taxes and will be so construed. Therefore, the bid price shall not include taxes.

1.12 Quantities

Quantities indicated are estimated quantities only and are not a commitment to buy. Approximate usage does not constitute an order, but only implies the probable quantity that will be used. Commodities will be ordered on an as-needed basis. Bidder is responsible for accurate final counts.

1.13 Bid Award

Award of contract shall be made to the most responsible, responsive bidder, whose offer is determined to be the best value, taking into consideration the relative importance of price. Jefferson County reserves the right to be the sole judge as to whether items bid will serve the purpose intended. Jefferson County reserves the right to accept or reject in part or in whole any bid submitted, and to waive any technicalities or informalities for the best interest of the County. Jefferson County reserves the right to award based upon individual line items, sections or total bid.

1.14 Silence of Specifications for Complete Units

All materials, equipment and/or parts that will become a portion of the completed work, including items not specifically stated herein but, necessary to render the service(s) complete and operational per the specifications, are to be included in the bid price. Vendor may be required to furnish evidence that the service, as bid, will meet or exceed these requirements.

1.15 Addenda

Any interpretations, corrections or changes to the specifications and plans will be made by addenda no later than forty-eight (48) hours prior to the bid opening. Addenda will be distributed to all known recipients of bid documents. Vendors shall acknowledge receipt of all addenda with submission of bid.

1.16 General Bid Bond/Surety Requirements

Failure to furnish bid bond/surety, if requested, will result in bid being declared non-responsive. Non-responsive bids will not be considered for award.

1.17 General Insurance Requirements

Failure to furnish Affidavit of Insurance, if required in these specifications, will result in bid being declared non-responsive. Non-responsive bids will not be considered for award.

1.18 Responsiveness

A responsive bid shall substantially conform to the requirements of this Invitation to Bid and/or specifications contained herein. Bidders who substitute any other terms, conditions, specifications and/or requirements or who qualify their bids in such a manner as to nullify or limit their liability to the contracting entity shall have their bids deemed non-responsive. Also, bids containing any clause that would limit contracting authority shall be considered non-responsive. Examples of non-responsive bids include but shall not be limited to: a) bids that fail to conform to required delivery

schedules as set forth in the bid request; b) bids with prices qualified in such a manner that the bid price cannot be determined, such as with vague wording that may include "price in effect at the time of delivery," and c) bids made contingent upon award of other bids currently under consideration.

1.19 Responsible Standing of Bidder

To be considered for award, bidder must at least: have the ability to obtain adequate financial resources, be able to comply with required or proposed delivery/completion schedule, have a satisfactory record of performance; have a satisfactory record of integrity and ethics, and be otherwise qualified and eligible to receive award.

1.20 Proprietary Data

Bidder may, by written request, indicate as confidential any portion(s) of a bid that contain proprietary information, including manufacturing and/or design processes exclusive to the vendor. Jefferson County will protect from public disclosure such portions of a bid, unless directed otherwise by legal authority, including existing Open Records Acts.

1.21 Public Bid Opening

Bidders are invited to be present at the opening of bids. After the official opening of bids, a period of not less than one week is necessary to evaluate bids. The amount of time necessary for bid evaluation may vary and is determined solely by the County. Following the bid evaluation, all bids submitted are available for public review.

2. Performance

2.1 Design, Strength, and Quality

Design, strength, and quality of materials and workmanship must conform to the highest standards of manufacturing and engineering practices. The apparent silence of specifications and/or plans as to any detailed description concerning any point shall be regarded as meaning that only the best commercial practices are to prevail. All interpretations of these specifications and/or plans shall be made on the basis of this statement.

2.2 Age and Manufacture

All tangible goods being bid must be new and unused, unless otherwise specified, in first-class condition, of current manufacture, and furnished ready to use. All items not specifically mentioned that are required for a complete unit shall be furnished.

2.3 Delivery Location

All deliveries will be made to the address(es) specified on the purchase order during normal working hours of 8:00 a.m. to 4:00 p.m., Monday through Friday, unless otherwise authorized by the Purchasing Agent or designee.

2.4 Delivery Schedule

Delivery time may be an important consideration in the evaluation of best value. The maximum number of days necessary for delivery ARO shall be stated in the space, if provided, on the bid form.

2.5 Delivery Charges

All delivery and freight charges, F.O.B. destination shown on Jefferson County purchase order, as necessary to perform contract are to be included in the bid price.

2.6 Installation Charges

All charges for assembly, installation and set-up shall be included in the bid price. Unless otherwise stated, assembly, installation and set-up will be required.

2.7 Operating Instructions and Training

Clear and concise operating instructions and descriptive literature will be provided in English, if requested. On-site detailed training in the safe and efficient use and general maintenance of item(s) purchased shall be provided as needed at the request of Jefferson County. Instructions and training shall be at no additional cost to the County.

2.8 Storage

Bidder agrees to provide storage of custom ordered materials, if requested, for up to thirty (30) calendar days.

2.9 Compliance with Federal, State, County, and Local Laws

Bids must comply with all federal, state, county and local laws, including, but not limited to, all applicable standard safety, emission, and noise control requirements. Any vehicles or equipment shall contain all standard safety, emission, and noise control requirements required for the types and sizes of equipment at the time of their manufacture. The contractor agrees, during the performance of work or service, to comply with all applicable codes and ordinances of Jefferson County or the State of Texas as they may apply, as these laws may now read, or as they may hereafter be changed or amended.

2.10 OSHA

The bidder will certify all equipment complies with all regulations and conditions stipulated under the Williams-Steiger Occupational Safety and Health Act of 1971, as amended. The successful bidder will further certify that all items furnished under this project will conform and comply with federal and State of Texas OSHA standards. The successful bidder will agree to indemnify and hold harmless Jefferson County for any and all damages that may be assessed against the County.

2.11 Patents and Copyrights

The successful vendor agrees to protect the County from claims involving infringements of patents and/or copyrights.

2.12 Samples, Demonstrations and Testing

At Jefferson County's request and direction, bidder shall provide product samples and/or testing of items bid to ensure compliance with specifications. Samples, demonstrations and/or testing may be requested at any point prior to or following bid award. Samples, demonstrations and/or testing may be requested upon delivery and/or any point during the term of resulting contract. All samples (including return thereof), demonstrations, and/or testing shall be at the expense of the bidder/vendor.

2.13 Acceptability

All articles enumerated in the bid shall be subject to inspection by an officer designated for that purpose by Jefferson County. If found inferior to the quality called for, or not equal in value to the specifications, deficient in workmanship or otherwise, this fact shall be certified to the Purchasing Agent, who shall have the right to reject the whole or any part of the same. Items and/or work determined to be contrary to specifications must be replaced at the vendor's expense. Inferior items not retrieved by the vendor within thirty (30) calendar days or an otherwise agreed upon time, shall become the property of the County. If disposal of such items warrants an expense, an amount equal to the disposal expense will be deducted from amounts payable to the vendor.

2.14 Maintenance

Maintenance required for equipment bid should be available in Jefferson County by a manufacturer authorized maintenance facility. Cost for this service shall be shown on the bid sheet as requested or on a separate sheet, as required. If Jefferson County opts to include maintenance, it shall be so stated in the purchase order and said cost will be included. Service will commence only upon expiration of applicable warranties and should be priced accordingly.

2.15 Material Safety Data Sheets

Under the "Hazardous Communications Act," common known as the "Texas Right to Know Act," a bidder must provide the user department, with each delivery, material safety data sheets which are applicable to hazardous substances defined in the Act. Failure of the bidder to furnish this documentation will be cause to reject any bid applying thereto.

2.16 Evaluation

Evaluation shall be used as a determinant as to which services are the most efficient and/or most economical for the County. It shall be based on all factors having a bearing on price and performance of the items in the user environment. All bids are subject to tabulation by the Jefferson County Purchasing Department and recommendation to Jefferson County Commissioners' Court. Compliance with all bid requirements and needs of the using department are considered in evaluating bids. Pricing is **not** the only criteria for making a recommendation. The Jefferson County Purchasing Department reserves the right to contact any bidder, at any time, to clarify, verify or requirement information with regard to this bid.

3. Purchase Orders and Payment

3.1 Purchase Orders

A purchase order(s) shall be generated by the Jefferson County Purchasing Agent to the successful vendor. The purchase order number must appear on all itemized invoices and packing slips. The County will not be held responsible for any work orders placed and/or performed without a valid current purchase order number. Payment will be made for all services rendered and accepted by the contract administrator for which a valid invoice has been received.

3.2 Invoices

All invoices shall reference the Purchase Order number. Invoices shall reference the bid item number or a detailed description for each item invoiced. If an item purchased and itemized on the invoice does not correspond to an item in any of the categories awarded to the vendor, invoice shall reference the item as "N/C" to indicate that it is a non-contract item. This requirement is to assist the County in verifying contract pricing on all invoices. Payment will be made under terms of net thirty (30) days unless otherwise agreed upon by seller and the purchasing department.

3.3 Prompt Payment

In accordance with the State of Texas Prompt Payment Act, Article 601f V.T.C.S., payment will be made after receive and acceptance by the County of the merchandise ordered and of a valid invoice. Successful bidder(s) is required to pay subcontractors within ten (10) days after the successful bidder receives payment from the County.

3.4 Funding

Jefferson County is operated and funded on an October 1 to September 30 basis; accordingly, the County reserves the right to terminate, without liability to the County, any contract for which funding is not available.

4. Contract

4.1 Contract Definition

The General Conditions of Bidding and Terms of Contract, Specifications, Plans, Bidding Forms, Addenda, and any other documents made a part of this bid shall constitute the complete bid. This bid, when duly accepted by Jefferson County, shall constitute a contract equally binding between the successful bidder and Jefferson County.

4.2 Contract Agreement

Once a contract is awarded, the unit prices offered by the successful bidder shall remain firm for the term of the contract. **Contract shall commence on date of award and continue with an option for up to a four (4) year period.**

4.3 Change Order

No different or additional terms will become part of this contract with the exception of a change order. No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All change orders to the contract will be made in writing and at the discretion and approval of Jefferson County. No change order will be binding unless signed by an authorized representative of the County and the vendor.

4.4 Price Re-determination

A price re-determination may be considered by Jefferson County only at the twelve (12) month and twenty-four (24) month anniversary dates of the contract. All requests for price re-determination shall be in written form. Cause for such request, i.e., manufacturer's direct cost, postage rates, Railroad Commission rates, Federal/State minimum wage law, Federal/State unemployment taxes, F.I.C.A, Insurance Coverage Rates, etc., shall be substantiated in writing by the source of the cost increase. The bidder's past experience of honoring contracts at the bid price will be an important consideration in the evaluation of the lowest and best bid. Jefferson County reserves the right to accept or reject any/all requests for price re-determination as it deems to be in the best interest of the County.

4.5 Termination

Jefferson County reserves the right to terminate the contract for default if the bidder breached any of the terms therein, including warranties of bidder or if the bidder becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies which Jefferson County may have in law or equity. Default may be construed as, but not limited to, failure to deliver the proper goods and/or service within the proper amount of time, and/or to properly perform any and all services required to Jefferson County's satisfaction and/or to meet all other obligations and requirements. Contracts may be terminated without cause upon thirty (30) days' written notice to either party unless otherwise specified. Jefferson County reserves the right to award canceled contract to the next lowest bidder. Bidder, in submitting this bid, agrees that Jefferson County shall not be liable to prosecution for damages in the event that the County declares the bidder in default.

4.6 Conflict of Interest

Employees of the County are not permitted to maintain financial interest in, or receive payment, directly or indirectly, borrow from, lend to, invest in, or engage in any substantial financial transaction with any individual, organization, supplier, or subcontractor who does business with the County without disclosure.

When conflict of interest is discovered, it shall be grounds for termination of contract.

4.7 Injuries or Damages Resulting from Negligence

Successful vendor shall defend, indemnify and save harmless Jefferson County and all its officers, agents and employees from all suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the successful vendor, or of any agent, employee, subcontractor or supplier in the execution of, or performance under, any contract which may result from bid award. Successful vendor shall pay any judgment with cost which may be obtained against Jefferson County growing out of such injury or damages.

4.8 Interest by Public Officials

No public official shall have interest in this contract, in accordance with Texas Local Government Code.

4.9 Warranty

The successful vendor shall warrant that all materials utilized in the performance of this contract shall conform to the proposed specifications and/or all warranties as stated in the Uniform Commercial Code and be free from all defects in material, workmanship and title.

4.10 Uniform Commercial Code

The successful vendor and Jefferson County agree that both parties have all rights, duties, and remedies available as stated in the Uniform Commercial Code.

4.11 Venue

This agreement will be governed and construed according to the laws of the State of Texas. This agreement is performable in the County of Jefferson, Texas.

4.12 Sale, Assignment, or Transfer of Contract

The successful vendor shall not sell, assign, transfer or convey this contract, in whole or in part, without the prior written consent of Jefferson County.

4.12 Silence of Specifications

The apparent silence of these specifications as to any detailed description concerning any point, shall be regarded as meaning that only the best commercial practices are to prevail. All interpretations of these specifications shall be made on the basis of this statement.

SPECIAL REQUIREMENTS/INSTRUCTIONS

The following requirements and instructions supersede General Requirements where applicable.

1. Bid Requirement

Each bidder should submit as a bid this entire IFB, completed where necessary, for example, the IFB cover sheet, the Price Sheets, etc. Use an opaque envelope, **clearly indicating on the outside the Job Number, Job Description**, and marked "SEALED BID". Jefferson County shall not be responsible for any effort or cost expended in the preparation of a response to this IFB. All protests should be coordinated through the Purchasing Office prior to award recommendation to Commissioners' Court.

2. Multiple Vendor Award

Jefferson County reserves the right to award this contract to more than one vendor at the County's discretion.

3. Delivery

If delivery is required, all items must be packaged so as to be protected from damage during shipping and handling. Any item(s) damaged in shipping must be replaced in kind, or repaired, by the contractor, at the discretion of, and at no additional charge to, Jefferson County.

4. Payment

Jefferson County will pay original invoices that clearly itemize the goods and/or services provided as to quantity, part number, description, price, applicable discount (if any), labor charges showing time differential, if applicable and if previously agreed to, and delivery, installation, and set-up costs, if applicable and if previously agreed to. Only charges as stated on the Bid Form(s) submitted as a part of the bid will be considered.

Invoices must indicate Jefferson County as applicable, the address to which the product(s) and/or service(s) were delivered, and the applicable purchase order number. Invoices will be matched to delivery tickets prior to payment; therefore, all delivery tickets should have an accurate description of the product(s) and/or service(s).

5. Usage Reports

Jefferson County reserves the right to request, and receive at no additional cost, up to two (2) times during the contract period, a usage report detailing the products and/or services furnished to date under a contract resulting from this IFB. The reports must be furnished no later than five (5) working days after written request and itemize all purchases to date by Jefferson County department, description of each item purchased, including manufacturer, quantity of each item purchased, per unit and extended price of each item purchased, and total amount and price of all items purchased.

6. Insurance

The contractor shall, at all times during the term of this contract, maintain insurance coverages with not less than the type and requirements shown below. Such insurance is to be provided at the sole cost of the contractor. These requirements do not establish limits of the contractor's liability.

All policies of insurance shall waive all rights of subrogation against the County, its officers, employees and agents.

Contractor shall furnish Jefferson County with Certificate of Insurance naming Jefferson County as additional insured.

All insurance must be written by an insurer licensed to conduct business in the State of Texas.

Minimum Insurance Requirements

Public Liability	\$300,000.00
Property Damage	\$300,000.00
Bodily Injury	\$300,000.00
Excess Liability	\$1,000,000.00
Workers' Compensation	Statutory Coverage (see attached)

7. Workers' Compensation Insurance

7.1 Definitions:

- 7.1.1 **Certificate of coverage ("Certificate")** – A copy of a certificate of insurance, a certificate of authority to self-insure issued by the commission, or a coverage agreement, TWCC-81, TWCC-82, TWCC-83, or TWCC-84 showing statutory workers' compensation insurance coverage for the person's or entity's employees providing services on a project, for the duration of the project.
 - 7.1.2 **Duration of the project** – Includes the time from the beginning of the work on the project until the contractor's/person's work on the project has been completed and accepted by the governmental entity.
 - 7.1.3 **Persons providing services on the project ("subcontractor") in article 406.096** – Includes all persons or entities performing all or part of the services under the contractor has undertaken to perform on the project, regardless of whether that person contracted directly with the contractor and regardless of whether that person has employees. This includes, without limitation, independent contractors, subcontractor, leasing companies, motor carriers, owner-operators, employees of any such entity, or employees of any entity which furnishes persons to provide services on the project. "Services" includes, without limitation, providing, hauling or delivering equipment or materials, or providing labor, transportation, or other service related to a project. "Services" does not include activities unrelated to the project, such as food/beverage vendors, office supply deliveries, and delivery of portable toilets.
- 7.2 The Contractor shall provide coverage, based on proper reporting of classification code and payroll amounts and filing any coverage agreements, which meets the statutory requirements of Texas Labor Code, Section 401.011(44) for all employees of the contractor providing services on the project, for the duration of the project.
 - 7.3 The Contractor must provide a certificate of coverage to the governmental entity prior to being awarded the contract.
 - 7.4 If the coverage period shown on the Contractor's current certificate of coverage ends during the duration of the project, the Contractor must, prior to the end of the coverage period, file a new certificate of coverage with the governmental entity showing that coverage has been extended.
 - 7.5 The Contractor shall obtain from each person providing services on a project, and provide to the governmental entity:
 - 7.5.1 A certificate of coverage, prior to that person beginning work on the project, so the governmental entity will have on file certificates of coverage showing coverage for all persons providing services on the project; and
 - 7.5.2 No later than seven (7) days after receipt by the Contractor, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate ends during the duration of the project.
 - 7.6 The Contractor shall retain all required certificates of coverage for the duration of the project and for one (1) year thereafter.
 - 7.7 The Contractor shall notify the governmental entity in writing by certified mail or personal delivery, within ten (10) days after the contractor knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project.

- 7.8 The Contractor shall post on each project site a notice, in the text, form and manner prescribed by the Texas Workers' Compensation Commission, informing all persons providing services on the project that they are required to be covered, and stating how a person may verify coverage and report lack of coverage.
- 7.9 The Contractor shall contractually require each person with whom it contracts to provide services on a project to:
 - 7.9.1 Provide coverage, based on reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code, Section 401.011(44) for all its employees providing services on the project, for the duration of the project.
 - 7.9.2 Provide to the Contractor, prior to that person beginning work on the project a certificate of coverage showing that coverage is being provided for all employees of the person providing services on the project, for the duration of the project.
 - 7.9.3 Provide the Contractor, prior to the end of coverage period, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project.
 - 7.9.4 Obtain from each person with whom it contracts, and provide to the Contractor:
 - 7.9.4.1 A certificate of coverage, prior to the other person beginning work on the project; and
 - 7.9.4.2 The coverage period, if the coverage period shown on the current certificate of a new certificate of coverage showing extension of coverage, prior to the end of coverage ends during the duration of the project.
 - 7.9.5 Retain all required certificates of coverage on file for the duration of the project and for one (1) year thereafter.
 - 7.9.6 Notify the governmental entity in writing by certified mail or personal delivery, within ten (10) days after the person knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project; and
 - 7.9.7 Contractually require each person with whom it contracts to perform as required by paragraphs I.1. – I.7., with the certificates of coverage to be provided to the person for whom they are providing services.
- 7.10 By signing this contract or providing or causing to be provided a certificate of coverage, the Contractor is representing to the governmental entity that all employees of the contractor who will provide services of the project will be covered by workers' compensation coverage for the duration of the project, that the coverage will be based on proper reporting of classification codes and payroll amounts, and that all coverage agreements will be filed with the appropriate insurance carrier or, in the case of a self-insured, with the commission's Division of Self-Insurance Regulation. Providing false or misleading information may subject the contractor to administrative penalties, criminal penalties, civil penalties, or other civil actions.
- 7.11 The Contractor's failure to comply with any of these provisions is a breach of contract by the Contractor which entitles the governmental entity to declare the contract void if the Contractor does not remedy the breach within ten (10) days after receipt of notice of breach from the governmental entity.

MINIMUM SPECIFICATIONS

The following requirements and specifications supercede General Requirements where applicable. Contact Joe Newkirk, Contract Specialist (e-mail: jnewkirk@co.jefferson.tx.us, Phone: 409-835-8593), regarding any questions or comments. Please reference bid number 08-063/JN.

1 Objective

Jefferson County seeks a contractor to provide a Fire/Tanker Truck (ARFF) for Southeast Texas Regional Airport. Contract will be contingent on obtaining the necessary FAA AIP grant funds.

2 Scope

PRE-CONSTRUCTION CONFERENCE (AT MANUFACTURER)

A pre-construction conference for two (2) Fire Department personnel shall be conducted at the apparatus manufacturers factory at which time all final designs and equipment mounting locations will be approved, prior to any sheet metal being cut. A factory employed design engineer shall be present during the pre-construction conference to answer any design, and/or engineering questions relating to the layout of the apparatus. Air travel (for distances over 250 miles), meals, and lodging expenses shall be borne by the contractor. BIDDER SHALL INDICATE INTENTION TO PROVIDE THE REQUIRED PRE-CONSTRUCTION CONFERENCE IN THE PROPOSAL PACKET.

PAST HISTORY

Manufacturer must supply a comprehensive list of the last ten (10) units delivered: including airport and contact info. The list shall be compiled of only vehicles of the class 3 model.

INSPECTION TRIPS

One (1) final inspection trip for two (2) Fire Department personnel shall be made to the manufacturer's facility. Successful bidder shall consult with Fire Department committee chairperson as to the proper timing of the inspection trip(s). Air travel (for distances over 250 miles), meals, and lodging expenses shall be borne by the contractor. BIDDER SHALL INDICATE INTENTION TO PROVIDE THE REQUIRED INSPECTION TRIP(S) IN THE PROPOSAL PACKET.

FINAL DELIVERY

Final delivery of the completed apparatus shall be made via drive-way FOB fire department headquarters.

INSTRUCTION:

Fire Department and maintenance personnel shall be instructed as to the proper use of the entire apparatus including, but not limited to, chassis, fire pump system, the apparatus and all equipment. Instruction shall be made by a factory trained Specialist who shall be responsible for complete instruction as to operation and maintenance of the chassis, and the completed vehicle.

The Instruction specialist shall remain at the Fire Department for a sufficient amount of time to provide thorough familiarization of all personnel, or as instructed by Chief of the Department. All meals, motel and travel costs shall be the responsibility of the successful bidder. The department mechanic will be instructed in all proper techniques for complete maintenance of vehicle. (I.e. classes and or hands on instruction)

FIRE APPARATUS WARRANTY

The manufacturer shall warrant each new motorized fire apparatus manufactured for a period of TWO YEAR from the date of delivery, except for other components which are covered by a separate manufacturer's warranty.

The warranties shall cover any parts to replace those that have failed due to defective material or workmanship, and the conditions of all warranties should be stated in the bid offer workmanship.

ADVISORY CIRCULAR

This apparatus will be constructed in accordance with and meet the current FAA Advisory Circular No. 150/5220-10D.

VEHICLE TILT ANGLE CERTIFICATION

A vehicle tilt angle certification test shall be performed on the completed apparatus upon completion of the unit at the apparatus manufacturer's factory.

The test shall be performed with all requested equipment properly placed and installed.

A metal data plate shall be affixed to the driver's door of the vehicle. This data plate shall list the following: vehicle empty weight, maximum gross weight, the actual front and rear axle loaded weights, and the recorded tilt table angle(s) achieved for both the left and right tilt angles.

This test shall be conducted on a tilt table assembly, meeting SAE J2180, static rollover threshold for heavy trucks.

The vehicle shall be restrained and tilted until the vehicle tilt or slide angle can be positively determined. No Exceptions are allowed to this tilt angle certification requirement.

VERTICAL CHASSIS EXHAUST

The chassis shall have a vertical exhaust system on the passenger side of the apparatus. There shall be a ventilated protective guard installed around the exhaust pipe.

LATERAL ACCELERATION INDICATOR

A Stability Alert shall be installed providing an in-cab vehicle operator warning device inclusive of a lateral acceleration sensor and driver awareness/alarm system.

The system shall provide the ability to set an alarm threshold for the vehicle. The alarm shall include an advisory light at each 10% increments of the threshold up to 70%, and then increase the level of advising lights and audio alarms at the 80%, 90% and 100% levels.

BUMPER EXTENSION

The chassis front bumper is to be extended forward approximately 20". The area between the bumper and the front of the chassis grille is to be reinforced and covered on the top and both sides with .190" aluminum tread plate material. Aluminum fabrications are to be completely bolted in place and removable using stainless steel threaded fasteners with Ny-Lok nut fasteners.

ELECTRIC WINCH

A Ramsey (or equivalent), 12 volt electric winch with appropriate capacity for the weight of the vehicle and all tanks full shall be provided and mounted behind the front bumper of the chassis. The winch shall be secured directly to the chassis frame rails by a heavy steel support structure designed to with stand

the pulling force of the winch. The steel support structure shall have (2) two tow eyes or hooks with sufficient capacity for the completed weight of the truck and all tanks full.

The winch shall include 150 ft. galvanized cable with clevis hook, 12 foot remote control pendant, 4-way roller fairlead through the bumper.

A hinged cover shall be provided in the top of the front bumper gravel shield to access the winch from above.

BRUSH GUARD

A heavy duty wrap around style brush guard shall be provided and mounted on the front bumper.

CAB STEPS

The existing chassis cab steps shall be used for entering and egress of the cab.

CAB STEPS

The existing chassis cab steps shall be used with vertically mounted tread plate aluminum kick plates.

CHASSIS PREPARATION

Prior to installation of the fire pump, apparatus body, or cab steps, all components which extend out beyond the chassis frame rails shall be removed and relocated to the area within the frame rails, allowing for maximum side depth compartmentation.

WINDSHIELD DELUGE SYSTEM

A windshield deluge system shall be provided with two (2) 3 - gpm nozzles to keep the windshield clear of foam.

The windshield deluge system shall be controlled from inside the cab.

FRONT MUD FLAPS

One (1) pair of mud flaps shall be installed behind the front wheels of the apparatus using stainless steel brackets with stainless steel threaded fasteners and Ny-Lok nuts.

REAR MUD FLAPS

Heavy duty black rubber mud flaps shall be furnished and installed behind the rear wheels of the vehicle. Mud flaps shall extend the full width of the rear duals, and are to be attached to heavy stainless steel angle support brackets with stainless steel threaded fasteners and Ny-Lok nuts.

AIR HORNS

Two (2) chrome plated Grover "Stutter tone" air horns shall be provided and mounted on the sides of the engine hood. Air horns shall be controlled by the steering wheel horn button and by a floor switch on the right side cab floor. A pressure protection valve to prevent the use of air horns or other air operated accessories when the system air pressure drops below 80 psi shall be provided.

MANUFACTURERS PUMP TEST

The pump shall undergo a three (3) hour pump test provided by the body builder to insure proper pressures and flow rates prior to delivery of the completed apparatus. The pump shall be tested at the manufacturer's plant to meet the requirements of AC 105/5220-10D circular for Rapid Intervention Vehicles class 1, 2 or 3, and NFPA 414 2007 edition table 4.1.1d for vehicle water tank capacity 120 to 528 gallons.

500 GPM PUMP SYSTEMS W/ PTO DRIVE SYSTEM

A fire pump shall be rear mounted with a rated capacity of 500 GPM. In addition to meeting NFPA 1901 requirements, it shall be constructed and mounted in accordance with the following specifications.

Pump shall deliver the percentage of rated discharge at pressures indicated below:

- 100% of rated capacity at 165 pounds net pressure
- 70% of rated capacity at 200 pounds net pressure
- 50% of rated capacity at 250 pounds net pressure

The pump shall be equipped with a thermal protection device which monitors the water temperature of the pump and relieves water when the temperature inside the pump exceeds 120 degrees Fahrenheit.

The high-grade light alloy impellers shall be accurately balanced and mounted on a stainless steel pump shaft. The shaft shall be supported by three roller bearings; two located in the gearbox and one in the suction inlet. Bearings shall be protected from water and sediment by maintenance free self-adjusting mechanical seals.

The main pump body shall be easily removable without disturbing setting of the pump on the chassis. The pump body is to be of high quality seawater resistant light alloy. All parts that come into contact with water shall be special treated light alloy or stainless steel.

The pump manufacturer shall test the pump for 10 minutes hydrostatically at a pressure of 500 psig. Hydrostatic Certification by the pump manufacturer shall be provided.

Fire pump shall incorporate high strength helical gear drive single stage transmission. Pump drive system shall be with a heavy duty PTO system bolted directly to the chassis transmission. There shall be a heavy duty drive line assembly with hanger bearings furnished from the PTO to the rear mounted pump transmission.

The pump shall be provided with a plate giving the rated flow at "capacity" and "pressure" test pressures, together with the R.P.M. of the engine at those pressures and deliveries and mounted in clear view of the pump operator's panel. Data plate shall include model and serial numbers of the pump body and chain transmission, hydro and discharge test pressures, and the date of pump and transmission manufacture.

HIGH PRESSURE RELIEF VALVE

A relief valve shall be plumbed to the high pressure side of the pump to prevent water spiking.

OILESS PRIMING SYSTEM

The pump shall be capable of taking suction and discharging water with a lift of 10 feet in not more than 30 seconds with the pump dry, through 20 feet of suction hose of appropriate size. It shall be capable of developing a vacuum of 22" at an altitude of up to 1000 feet.

A high capacity, electrically driven automatic double piston priming pump shall be provided with a manual back up.

A vacuum test with a capped suction of at least 20' long shall develop 22" of vacuum and hold a vacuum with a drop not in excess of 10" in five minutes.

PUMP REMOVAL

The pump and plumbing shall be of a modular design and shall be completely removable as one unit from the top of the apparatus as a complete unit for future removal if necessary.

PUMP SHIFT

The PTO pump shall be engaged through an electrically operated Hot Shift control switch located within the truck cab.

HEAT EXCHANGER

A heat exchanger shall be provided on the chassis cooling system. The heat exchanger shall not allow mixing of the chassis coolant and water from the fire pump.

A gated discharge line shall be installed to provide water from the fire pump to the chassis heat exchanger to assist in engine cooling during pumping operations. The heat exchanger line shall be controlled at the pump operator's panel.

PSG GOVERNOR/ENGINE MONITORING SYSTEM

A Fire Research (or equivalent) model IN CONTROL pressure governor and all-in-one instrument monitoring module shall be provided and mounted on the pump gauge panel. The unit shall maintain a steady pump discharge pressure by controlling engine speed or hold a selected engine RPM. It shall offer complete engine control and remote display in a single compact unit. The IN Control shall operate in one of two modes, pressure or RPM. In pressure mode the IN Control shall maintain a constant pump discharge pressure. The discharge pressure shall be monitored and compared to the selected pressure setting, the engine RPM shall vary to keep the discharge pressure at the selected setting. In RPM mode the IN Control shall maintain a constant engine RPM. The pump discharge pressure shall be monitored and can vary but, as a safety feature it will be limited to an increase of 30 PSI. If the discharge pressure increases 30 PSI the governor will automatically lower the engine RPM to prevent a high pressure surge. The module shall have three (3) 4-digit LED displays for pump discharge, pump intake, and engine RPM. An LED bar graph shall be provided to show PSI or RPM setting depending on the mode, and three (3) LED bar graphs that provide a constant display of the battery voltage, engine coolant temperature, and engine oil pressure.

All controls and indicators are located on the front of the control module.

Features:

- Power Up in Pressure Mode
- Automatic Regulation of Pump Discharge Pressure
- Manual Control of Pressure or Engine RPM Settings
- Field Programmable Presets
- Diagnostic Capabilities
- No Pressure or RPM Variation When Changing Modes
- Limits Increase of Pressure When in RPM Mode
- Recognition of No Water Condition With Automatic Response
- Interlock Signal Recognition and OK To Pump LED
- Return to Engine Idle With the Push of a Button

INTAKE RELIEF VALVE

A 2-1/2" intake relief valve preset at 125 psi shall be permanently installed on the suction side of the fire pump. The valve shall have an adjustment range of 75 psi to 300 psi, and shall be designed to automatically self-restore to a non-relieving position when excessive pressure is no longer present.

Discharge side of the intake relief valve shall be plumbed away from but, visible to the pump operator, and shall terminate with a 2-1/2" NST male chrome threaded adapter, marked with an engraved tag "Intake pressure relief outlet - Do Not Cap".

REAR PUMP ROLL UP DOOR

A roll up door shall be provided and installed around the rear face opening of the pump to prevent road grime from entering the pump area.

STEAMER

There shall be one steamer inlet furnished. Steamer inlet shall be located on the rear of the body. The suction inlet shall have 4" NST threads. The suction inlet shall have a removable strainer provided inside external inlet.

PUMP SUCTIONS

Each gated suction inlet shall include a Class One 3/4" cast bronze 1/4 turn drain valve complete with a chrome plated bronze ball, reinforced Teflon seals, and blow-out proof stem rated to 600 psi. A chrome plated zinc handle shall be provided on each drain valve, complete with a 1" X 1 1/2" recessed ID label and located adjacent to the intake fitting. Each 3" and larger gated pump suction intake shall have an operating mechanism which will not permit changing the position of the flow regulating element of the valve from full close to full open, or vice versa, in less than 3 seconds.

All specified suction intake caps shall be capable of withstanding a minimum of 500 psi.

One (1) 2 1/2" suction located at the rear face of the apparatus body shall be provided.

CAP, REAR SUCTION

The rear suction shall be equipped with chrome plated long handled design cap capable of withstanding 500 psi.

STAINLESS STEEL PLUMBING/HIGH PRESSURE HOSE

All plumbing shall be a combination of stainless steel rigid plumbing and high pressure hose.

BUMPER TURRET

An Akron model 3463 Fire Fox (or equivalent) 12 volt electrically controlled monitor with a Hydro-Chem Ranger (or equivalent) electric nozzle with a flow rate of 250 gpm shall be furnished and installed on the front bumper of the apparatus. The unit shall have a two (2") inch waterway. Controls for the monitor shall be mounted inside the chassis cab. The monitor shall be plumbed with two (2") inch flexible hose with stainless steel couplings and have a two (2") valve. The valve shall be electrically operated with valve control located in chassis cab. There shall be a 3/4" drain furnished in the supply line to the monitor.

When a bumper turret is required, proper switching shall be provided in the cab for operation of normal pressure water to the turret within reach of the Driver and Officer.

FOAM SYSTEM

An around the pump foam proportioning system shall be provided and direct mounted to the water pump.

The system shall be capable of providing constant proportioning and shall deliver foam at a proportioning rate from 3% or 6% manually selectable at the pump.

Controls for the foam system shall be provided on the pump panel and in the cab.

When a bumper turret is required, proper switching shall be provided in the cab for operation of high pressure water to the turret within reach of the Driver and Officer.

Foam shall be plumbed to all discharges.

FOAM FILL SYSTEM

The apparatus shall be equipped with Class 1 products, EZ-Fill™ fixed-mount foam tank refill pump system. The unit shall include a 12-volt electric motor that drives a 5-gpm foam concentrate pump used to refill the foam apparatus reservoir(s), a panel mounted smart-switch operator control and a wand suction hose connection.

The EZ-Fill system shall incorporate push-button smart-switch technology and be designed so that with a momentary press of the EZ-Fill control panel Fill or Flush buttons, the unit will automatically cycle respectively filling the foam concentrate reservoir or running itself through a flush cycle.

The system shall be configured to handle refilling a single or dual foam concentrate tank apparatus reservoir system.

The EZ Fill shall be equipped with a clear wand suction hose having a cam-lock fitting designed for 5-gallon pail drafting operations. The suction hose shall be equipped with integral strainer to prevent intake of unwanted debris. The cam-lock foam suction inlet connection shall be equipped with a cap for stowage. The wand shall attach to a cam-lock fitting receptacle on the pump operators panel during the refill process. Once the clear suction wand is connected via the cam-lock fitting, and the wand end is placed in a 5-gallon bucket of foam concentrate, with one push of the Fill button the unit shall self-prime and fill the apparatus foam concentrate reservoir. The EZ-Fill system shall then automatically shut itself off either after 60-second run duration or when the foam concentrate reservoir is full. The EZ-Fill system shall contain a foam pump flush feature via a three-way integral valve mounted inside the pump-house. The EZ-Fill pump panel smart-switch control shall be designed to override automatic re-fill operation by allowing the pump operator to hold down the Fill or Flush buttons, which allows for continuous foam pump refill or flush action. The foam concentrate reservoir(s) shall be equipped with a high level tank switch to prevent foam reservoir overflow during automatic operation. The EZ-Fill shall include a factory supplied wiring harness configured for power and ground leads and an installation and operation manual.

FOAM CONCENTRATE TANK

One (1) 60 gallon polypropylene foam concentrate tank shall be provided and installed within the main booster water tank, unless otherwise specified, to allow easy access for filling. Tank shall be plumbed to the on board foam system.

AFFF

60 gallons of 3% mil spec AFFF in 5 gallon buckets shall be provided with the apparatus.

HIGH PRESSURE VALVE

A 1 1/2" electrically operated valve shall be provided to feed the high pressure manifold. The valve shall be controlled from the cab and rear of truck and shall be properly labeled.

DRY CHEMICAL SYSTEM

AGENT CONTAINER(S) AND COMPONENTS

A 500 lb. Dry Chemical System shall be provided and mounted on the apparatus.

The system shall be constructed and stamped in accordance with the ASME "Code for Unfired Pressure Vessels" and hold at least 500 usable lbs of a potassium-based dry chemical fire extinguishing agent. The fill opening shall be easily accessible and provided with a compatible funnel to permit filling from dry chemical storage containers.

The pressure relief device shall conform to the appropriate ASME codes that will protect both the container and the low pressure piping.

A system pressure gauge shall be provided at the dry chemical reservoir.

A check valve shall be provided in the gas piping to prevent the agent from being forced back into the propellant gas line.

Two (2) spring loaded locking agent system activation control switches shall be located adjacent to the dry chemical hose reel, one (1) to charge the nitrogen cylinder and one (1) to control the chemical valve.

The agent pressurization system shall ensure fluidization of the dry chemical at the time of activation.

There shall be provisions for purging agent from all piping and hose after use without discharging the remaining chemical.

There shall be provisions for the de-pressurization of the chemical container without the loss of the remaining chemical.

All system components shall remain within vehicle GVWR and mounting shall not adversely affect vehicle center of gravity.

Designs, where nitrogen bottles are being stored in front of the first axle shall be not accepted due to the high risk of explosion in case of an accident.

The system shall have manually activated valves for the hose reel hand line nozzle, by pass and blow down valves located at the agent tank.

AGENT DELIVERY PIPING AND VALVES

The piping, couplings, and valves shall be sized to provide the gas flow into the system and the agent flow out of the chemical container needed to meet the requirements for the discharge nozzle.

All piping and fittings shall conform to the appropriate ASME code. The completed system shall be designed and installed so as to withstand the recommended working pressure of the system.

The integrity of the installed discharge piping shall be tested at a pressure equal to 150 percent of the system working pressure. A connection/valve shall be installed immediately downstream of the agent tank to test integrity of all lines and valves in the discharge system from an independent outside source without pressurizing the agent tank. Material for all piping, couplings, and valves shall be resistant to agent, weather, and galvanic corrosion. When line flexibility is required, stainless steel braided lines shall be used. Piping shall be securely mounted and provided with flexible couplings where needed to minimize stress. All valves shall be quarter-turn type, selected for ease of operation and freedom from leaks, designed for the abrasive effects of dry chemicals.

PROPELLANT, PROPELLANT CONTAINERS AND COMPONENTS

The propellant gas shall be dry nitrogen. Sufficient container capacity shall be provided to ensure enough gas to discharge the entire agent and to permit purging of all pipes and hose lines after use.

All propellant gas cylinders and valves shall comply with US Department of Transportation (DOT) requirements. Cylinders shall bear the DOT marking, including evidence of a current hydrostatic test.

Pressure gages shall be provided which will indicate the pressure on the propellant gas system downstream of the pressure regulator and in the propellant cylinders at all times.

Cylinder valves, gages, and piping shall be arranged or protected to preclude accidental mechanical damage during fire fighting operations.

The pressure reduction system shall automatically reduce the normal storage cylinder pressure to (and hold it at) the designed operating pressure of the dry chemical container. The regulator may be of a type without pressure indicating gages.

Pressure regulating devices shall be equipped with a spring-loaded relief valve that will relieve any excess pressure that may develop in the regulator.

All pressure regulating devices shall be sealed or pinned at the designed operating pressures after final adjustment by the system manufacturer.

Regulators must be of a high flow variety which allows a rapid build-up time for system pressure for a full system charge and operation. Regulators shall allow for continuous discharge of the agent at not less than 7 lbs. per second, while maintaining discharge distance until such time as the agent tank is completely empty. The nitrogen cylinder shall be mounted within a compartment for minimal exposure to the elements and shall be restraint for safe operation.

DUAL AGENT HOSE REEL

One (1) dual agent hose reel with leak proof ball bearing swing joint, adjustable friction brake and electric rewind and manual back up shall be furnished and mounted on the apparatus.

100' x 1" twinned hand line hose shall be provided and mounted on the reel.

DRY CHEMICAL NOZZLE

One (1) Hydro-Chem. twin agent 1" nozzle shall be provided with the specified hose reel.

DRY CHEMICAL POWDER (PKP)

500lbs. of potassium based dry chemical fire extinguishing agent shall be provided for the dry chemical system.

PRESSURE GAUGES

Class 1, 2 1/2" diameter liquid filled pressure gauges 30-600psi shall be provided. Gauges are to have white faces with black lettering. Line pressure gauges shall be individually identified with engraved labels.

Individual line pressure gauges are to be aligned in a straight horizontal row across the lower portion of the gauge panel, directly in line with, and above the corresponding discharge valve control.

CAB MOUNTED PRESSURE GAUGE

A Class 1 model PSIS digital pressure gauge shall be mounted within the truck cab, within easy view of the driver, to monitor the turret discharge pressure for Pump-And-Roll operations.

PUMP TEST CONNECTION

An Elkhart Brass model #471 pump pressure and vacuum checking assembly shall be provided and mounted at the pump operators control panel. Assembly shall include plug type caps.

DATA PLATE AND PLACARDS

The manufacturer will provide at time of delivery the following placards and signage as specified by the purchaser and required by the specified governing bodies.

A test data plate will be provided at the pump operator's position which gives the rated discharges and pressures together with the speed of the engine as tested for the proposed unit. Plate will comply with requirements of NFPA #1901.

A permanent data plate will be affixed in the driver's compartment specifying the quantity and type of the following fluids used in the completed vehicle when equipped with the specified component.

1. Engine Oil
2. Engine Coolant
3. Chassis Transmission Fluid
4. Pump Transmission Lubrication Fluid when applicable

5. Pump Primer Fluid when applicable
6. Drive Axle Lubrication Fluid
7. Air Conditioning refrigerant
8. Air Conditioning lubrication oil
9. Power steering fluid
10. Cab tilt mechanism fluid when applicable
11. Transfer case fluid
12. Hydraulic ladder rack fluid when applicable
13. Air compressor system lubricant
14. Generator system lubricant when applicable

Permanent placards will be affixed and visible to all seated occupants instructing the occupants to wear their seat belts.

A permanent placard will be affixed to the rear step area to instruct that riding on the rear step is prohibited.

All warning placards required by NFPA 1901 standards and required by the purchaser's specifications for the apparatus will be provided and installed.

PUMP PANEL IDENTIFICATION TAGS

All discharges shall be provided with color coded labels. Identification labels shall be provided at the discharge control, the discharge outlet, and at the discharge drain valve control, colored according to NFPA recommended standards.

CAB MOUNTED PUMP OPERATORS CONTROL PANEL

The fire pump shall be located in the rear compartment of the apparatus body. All NFPA required gauges and controls shall be furnished on an individual panel located in the chassis cab.

All of the pump controls shall be clearly identified with permanently engraved plate type labels.

Lighting shall be provided with a pump operator's panel mounted switch.

REAR MOUNT PLUMBING ASSEMBLIES

1" GATED DISCHARGES, CLASS 1

Class 1, 1" ball valve gated discharge line(s) shall be furnished with the valve located adjacent to the booster reel and plumbed using 1" I.D. wire reinforced, high pressure hose. Valve(s) shall be operated using a Class One chrome plated handle control assembly.

Outlet located;

One (1) discharge line plumbed to the specified booster hose reel.

2 1/2" GATED DISCHARGES, AKRON

Akron model #8825 (or equivalent), 2 1/2" ball valve gated discharge lines shall be furnished, operators panel controlled with the valves located within the enclosed pump compartment. Valves shall be operated using Class One chrome plated locking "T" handle control assemblies which are aligned in a straight horizontal row directly below the corresponding line pressure gauge.

Outlets located;

One (1) discharge located at rear of the body plumbed with 2 1/2" I.D. schedule 40 pipe, with chrome plated discharge extension adapter with 2 1/2" NST male, 30 degree chrome plated elbow, with 2 1/2" NST chrome plated caps with chain.

2" GATED DISCHARGES, AKRON ELECTRIC (CAB CONTROLLED)

Akron model #8820 (or equivalent), 2" ball valve gated discharge lines shall be furnished and controlled from within the cab with the valves located within the enclosed pump compartment and plumbed using 2" I.D. wire reinforced, high pressure hose. Valves shall be operated with Akron electric actuators with open/close switches, position indicator lights, with solid state controls. Valves shall be provided with emergency manual overrides. Control assemblies shall be aligned in a straight horizontal row directly below the corresponding line pressure gauge.

Outlet(s) located;

One (1) discharge located at the front bumper for the bumper turret, plumbed using 2" I.D. wire reinforced, high pressure hose.

ADDITIONAL REAR MOUNTED OPERATORS CONTROL PANEL

An additional individual enclosed pump panel shall be located at the rear of the apparatus. All of the pump controls shall be clearly identified with permanently engraved plate type labels.

Proper lighting shall be provided to illuminate the entire pump operators control panel.

BALL VALVE TANK TO PUMP

A 4" electric over air operated butterfly style suction valve with controls on the pump operator's panel and in the cab shall be furnished from the tank to the pump, complete with a flexible connection and enclosed in the pump compartment.

A check valve shall be provided and installed in the line between the tank and the pump to prevent the possibility of backfilling the booster tank thru the tank to pump suction line.

Tank suction shall be located in a sump assembly located below the bottom of the tank, properly baffled to prevent surging of water. A 3" cleanout plug shall be provided in the bottom of the tank sump.

TANK FILL/COOLING LINE

One (1) 1 1/2" electrically operated tank refill and pump re-circulating line.

EXTERNAL TANK FILL

An external tank fill shall be provided and installed at the rear of the body. The tank fill shall include an externally mounted quarter turn 2-1/2" Akron ball valve with chrome plated female swivel, plug and chain.

PUMP PANEL TANK LEVEL GAUGE

A Class One Intel -Tank LED water level gauge shall be provided on the pump operators panel.

CAB TANK LEVEL GAUGE

A Class One Intel -Tank LED water level gauge shall be provided on the dash of the cab.

PUMP PANEL FOAM TANK LEVEL GAUGE

A Class One Intelli -Tank LED foam level gauge shall be provided on the pump operators panel.

CAB FOAM TANK LEVEL GAUGE

A Class One Intelli -Tank LED foam level gauge shall be provided on the dash of the cab.

REEL AIR BLOW OUT

An electric valve shall be provided. Plumbed to the chassis air system which shall charge the booster hose and plumbing with air to eliminate water and prevent freezing.

Controls shall be located in the cab and at the pump panel.

UPF BOOSTER TANK

BOOSTER TANK

A 500 gallon capacity polypropylene booster tank shall be provided.

The booster tank shall be of a specific configuration and is so designed to be completely independent of the body and compartments. All joints and seams shall be nitrogen welded and tested for maximum strength and integrity.

The transverse swash partitions shall be manufactured of polypropylene and extend from approximately 4" off the floor to just under the cover. The longitudinal swash partitions shall be constructed of polypropylene and extend from the floor of the tank through the cover to allow for positive welding and maximum integrity. All partitions shall be equipped with vent and air holes to permit movement of air and water between compartments. The partitions shall be designed to provide maximum water flow. All swash partitions interlock with one another and are welded to each other as well as to the walls of the tank.

The tank shall have a combination vent and manual fill tower. The fill tower shall be constructed of polypropylene and with a minimum dimension of 8" x 8" outer perimeter. The tower shall be located in the left front corner of the tank. The tower shall have a polypropylene screen and a polypropylene hinged cover. Inside the fill tower, shall be fastened a combination vent overflow pipe. The vent overflow shall be polypropylene pipe that is designed to run through the tank and shall be piped behind the rear wheels.

A forward mounted sump shall be provided in the tank. The sump shall be constructed of polypropylene and be located in the left front quarter of the tank. A polypropylene pipe shall be installed that will sweep from the front of the tank to the sump location. The sump shall have a 3" N.P.T. threaded coupling on the bottom for a plug. This shall be used as a combination clean out and tank drain. An anti-swirl plate shall be located above the sump.

There shall be two standard tank outlets; one for tank-to-pump suction lines, and one for a tank fill line which shall be a 1 1/2" N.P.T. coupling. All tank couplings shall be backed with flow deflectors to break up the stream of water entering the tank.

The tank shall carry a lifetime warranty from its manufacturer.

CAB & CHASSIS

2008 Diamond SPEC 7400 SFA 4X4 (SR525)

APPLICATION:

Rescue

MISSION:

Requested GVWR: 35000. Calc. GVWR: 35350

Calc. Start/Grade Ability: 28.90% / 3.27% @ 55MPH

DIMENSION:	Calc. Geared Speed: 72.6 MPH
ENGINE, DIESEL:	Wheelbase 160.00, CA: 85.00, Axle to Frame: 63.00 {International MaxxForce9} 310 HP, 950 lb-ft Torque @ 1200 RPM (or equivalent) Governed Speed, #2 Bell Housing
TRANSMISSION, AUTOMATIC:	{ALLISON 3000EVS_P} 4 th Generation Controls; Close Ratio, 5-Speed; With Overdrive, Includes Oil Level Sensor, With Provision for PTO, Less Retarder, Max GVW N/A Omit Item (or equivalent)
CLUTCH:	(Clutch & Control)
AXLE, FRONT DRIVING:	Meritor MX-14-120} Single Reduction, 14,000-lb Capacity (or equivalent)
AXLE, REAR, SINGLE:	Meritor RS-23-160} Single Reduction, 23,000-lb Capacity Includes Driver Controlled Main Locking Differential and 200 Wheel Ends Gear Ratio: 4.89 (or equivalent)
CAB	Conventional
TIRE, FRONT:	(2) 11R22.5 XZY-3 (MICHELIN) 496 rev/mile, load range G, 14 ply (or equivalent)
TIRE, REAR:	(4) 11R-22.5 XZY-3 (MICHELIN) 496 rev/mile, load range G, 14 ply (or equivalent)
SUSPENSION, RR, SPRING, SINGLE:	Vari-Rate; 31,000-lb Capacity, With 4500 lb Auxiliary Rubber Spring Cab Schematic 100GM
FUEL CAPACITY	50 Gallons, minimum

APPARATUS BODY MATERIALS

STRUCTURAL DESIGN

To prevent possible interaction of dissimilar metals and to reduce the weight of the completed apparatus, the body and ALL STRUCTURAL SUPPORTS shall be constructed entirely of aluminum sheet and aluminum extrusions.

Aluminum extrusions or sheet aluminum of smaller thicknesses or lesser grades to those specified herein are not acceptable.

All extrusions utilized in the body super-structure, sub-structure and framing shall be 6061-T6 alloy aluminum of the specified thickness and size.

For strength and rigidity all aluminum sheet material utilized in the apparatus body, hose body and compartment sides shall be a minimum of 5052-H32 alloy aluminum sheet.

All extrusions shall be beveled at each joint and all seams shall be electrically seam welded using #5356 alloy aluminum wire.

FASTENERS

All threaded fasteners used in the apparatus body shall be attached with Ny-Lok type nuts.

All aluminum and stainless steel components shall be attached using stainless steel fasteners. Zinc or cadmium plated fasteners are not acceptable for use with any aluminum or stainless steel components on the vehicle.

Compartment door hinges, handrails, and running boards shall be attached using minimum 1/4" diameter machine screw fasteners.

3/16" diameter fasteners shall only be used in non-structural areas such as; door locks, trim moldings, gauge mountings, etc.

APPARATUS BODY SUB-FRAME

The surface of the chassis frame rails shall be isolated from the apparatus substructure by an elastomeric isolator.

The main body sub-frame shall be fully welded to the longitudinal chassis extrusions.

The main body sub-frame shall be constructed of not less than four (4) 4.00" by 2.50" tubular, 6061-T6 aluminum, "I" beams with a .375" vertical main body cross members. A minimum of four (4) cross members shall be provided two ahead of and two behind the rear axle forming the main body support cross members.

The main cross tubes shall be routed through and fully welded to the vertical and horizontal extrusions forming the body super-structure.

For added strength and rigidity, no less than six (6) intermediate body cross members shall be provided constructed of solid aluminum structural "I" beams 4.00" high by 3.00" wide with a minimum .29" flange thickness. If necessary, additional cross members shall be provided, to meet the minimum booster tank mounting requirements, as published by the manufacturer of the booster tank provided.

The intermediate structural "I" beam cross members shall be interconnected and welded to the main body tubular cross members forming a fully welded support grid for the body super-structure compartments and booster tank. No Exception.

CHASSIS FRAME AND BODY INTERFACE

The surface of the chassis frame rails shall be isolated from the apparatus body sub-structure by an elastomeric isolator.

Two (2) 6061-T6 aluminum longitudinal extrusions shall be provided, one (1) on each chassis frame rail running full length beneath the apparatus body. A minimum .50" extruded wall thickness shall be provided on the top flange of the chassis frame rail. Each extrusion shall be designed to cover the complete top flange and outside radius of the chassis frame rail extending down the outside web of the frame rail a minimum of 1.25" to prevent side to side shifting of the apparatus body.

A minimum of six (6) U-bolts shall be provided to secure the body sub-structure to the chassis frame. The forward two (2) U-bolts shall be shock absorbing spring tension type to allow for flexing without placing stress on the apparatus body or chassis frame rails.

BODY SUPERSTRUCTURE

All vertical and horizontal structural members of the outer apparatus body shall be constructed of no less than 4.00" by 12.00", 6061-T6 aluminum extrusions with a minimum .200" wall thickness fully welded together forming a unitized support system for the body and compartments. In order to provide a complete internal and integrated body super-structure, full height extruded structural members shall be provided at each corner of the apparatus and between each exterior equipment compartment. Bidder is to provide with their bid proposal illustrations and drawings of the body structure to show compliance with this requirement. No Exception.

EXTERIOR COMPARTMENT CONSTRUCTION

Compartment sides and walls shall be welded to the super-structure. Seams shall be sealed using an engineered grade polyurethane adhesive-sealant. Rear compartments on apparatus equipped with rear

fuel tanks shall be provided with a minimum 13" wide x 38" removable access panel on the rear wall to enable the fuel tank sending unit to be removed for repair or replacement.

Full height access panels fastened with stainless steel fasteners shall be provided to access all wiring routed through vertical super-structure extrusions. There shall be no exposed wiring allowed within the compartment interiors. No Exception.

A minimum of forty-five square inches of removable louvered ventilation shall be provided in each compartment.

Compartment flooring shall be smooth aluminum welded in place to the extruded aluminum framework.

There shall be no floor welds visible from the interior of the equipment compartments. No Exception.

The tops of the side exterior compartments shall be constructed of 3003-H14 alloy aluminum tread plate fastened to the body with stainless steel fasteners. Compartment tops that are welded in place do not meet the serviceability intent of this requirement.

SHELVING TRACKS

The vertical extrusions forming the framework of the side exterior compartmentation shall be designed to incorporate FULLY RECESSED adjustable shelving standards. Shelving tracks shall run full height of **ALL** side exterior equipment compartments.

The intent of this requirement is to allow full use of the available storage areas without the interference of shelving tracks extending into and reducing the interior widths of the compartments which will allow equipment to be stored within the full width of the compartment interiors.

Shelving, when specified, shall have a width of no less than .25" of the overall compartment width.

Adjustable shelving tracks welded or bolted onto interior walls of the compartments do not meet the intent of these specifications.

HOSE BODY CONSTRUCTION

To maintain strength and rigidity, the main hose body shall be completely framed with a minimum of 2.00" X 3.00" 6061-T6 alloy aluminum extrusions with a .281 nominal wall thickness. The hose body extrusions shall be welded to the super-structure framework, becoming an integral portion of a complete unitized support system. Sheet metal or sheet aluminum with double or triple formed breaks does not meet the technical requirement of the specification in providing a complete hose body framework and are not acceptable. Sides shall be constructed of aluminum sheet welded to the framework. There shall be no visible welds on the exterior of the hose bed side sheets.

SIDE BODY COMPARTMENT ROLL-UP DOOR CONSTRUCTION

Exterior side equipment compartments so specified shall be equipped with roll-up shutter doors to be installed as specified herein. The door shall be located above and outside of the interior of the compartments thereby protecting the door in the raised position from possible damage by the shifting of equipment.

The door roll mechanism shall also be protected from possible damage should equipment shift while the vehicle is in transit with the door in the closed position.

When the door is raised, the location of the drum assembly shall not allow water drainage from the doors into any portion of the exterior of the compartment, thereby preventing the accumulation of water, snow, or ice from damaging the equipment located therein.

The roll-up door drum assembly shall be fully enclosed and protected from the elements. Provisions shall be made on each end and each side of the apparatus for moisture to self-drain from the raised doors to below the apparatus body using integral drainage ports.

To provide access for repairs and adjustments without removing equipment from the compartments, the door roll assemblies shall be serviced from above the compartment. There shall be no need to remove any equipment or to open the door to provide service to the same. Should a door be prohibited from being raised because of damage to or a defect in the roller assembly, service must be capable of being performed without the cutting, damaging or destroying of the door shutters to gain access. Access to the door mechanism shall be provided through the removable door roller assembly access panel that requires only the use of common hand tools to remove.

Pendent plates supporting the door roll assembly shall be bolted in place, adjustable and capable of being removed with common hand tools. Pendent plates and supports that are welded in place do not meet the maintenance and service criteria of these specifications.

In order to provide unlimited access to stored equipment and to help prevent damage to the tracks by removing equipment, the tracks shall not protrude into any portion of the door frame opening. The width of the door frame opening shall be the actual useable width available to store and remove equipment. No Exception.

Door openings shall match the compartment sizes as specified.

ROLL UP DOORS

R.O.M. Robinson brand (or equivalent) extruded aluminum shutter style doors with lift bar latch mechanisms and associated hardware shall be provided and installed as specified.

ROLL UP DOOR FINISH

The roll up doors provided shall be left a satin anodized natural finish.

PULL DOWN STRAPS

Black in color nylon straps shall be provided and installed on the side portion of each roll up door and attached midway alongside the interior compartment which will allow the strap to automatically tuck inside the compartment when closed.

COMPARTMENTS LEFT SIDE

The left side compartment ahead of the rear wheels shall be 44" wide x 63" high and equipped with a large 44" wide by 63" high clear door opening.

The left side compartment above the rear wheels shall be 52" wide x 32" high, with a 52" wide by 32" high clear door opening.

The left side compartment behind the wheels shall be 44" wide x 63" high and have a 44" wide by 63" high clear door opening.

The compartments on the left side shall be provided with roll-up doors.

All left side compartments shall have an interior usable depth of not less than 12" in the upper portion with the specified doors in the closed position.

The lower portion of the forward and rear side compartments of the body are to be notched in and under the water tank to a useable depth of 26" with the specified doors in the closed positions in order to provide the maximum amount of storage area.

COMPARTMENTS RIGHT SIDE

The right side compartment ahead of the rear wheels shall be 44" wide x 63" high and equipped with a large 44" wide by 63" high clear door opening.

The right side compartment above the rear wheels shall be 52" wide x 32" high, with a 52" wide by 32" high clear door opening.

The right side compartment behind the wheels shall be 44" wide x 63" high and have a 44" wide by 63" high clear door opening.

The compartments on the right side shall be provided with roll-up doors.

All right side compartments shall have an interior usable depth of not less than 12" with the specified doors in the closed position.

The lower portion of the forward and rear side compartments of the body are to be notched in and under the water tank to a useable depth of 26" with the specified doors in the closed position in order to provide the maximum amount of storage area.

TOW EYES

Two (2) tow eyes shall be furnished under the rear of the body and attached directly to the chassis frame. Tow eyes are to be constructed of 1/2" plate steel with a 3" I.D. hole, large enough for passing through a tow chain end hook.

HOSE BED FLOORING

Floors of the specified hose beds are to be provided with removable slat style extruded aluminum hose bed gratings, spaced 1/2" apart for proper hose ventilation. Hose bed gratings are easily lifted out of the main hose bed for access to the top of the specified booster water tank.

BODY WIRING RACEWAYS

Due to the possibility of damage by shifting equipment, exposed wiring shall not be permitted in the equipment compartments. The main body wiring harness shall not be routed beneath the apparatus body where it may be exposed to road debris and the elements of weather.

The body shall be designed to provide easily accessible recessed raceways to fully protect all body wiring. Bolted on access panels shall be provided for all wiring routed through the body. Access panels shall be removable with common hand tools. Hollow tubes with wiring routed through the same that is only accessible by disconnecting wiring and manually pulling the same through the tube does not meet the intent or the technical requirements of this specification in providing accessible wiring. Open faced channels with wiring held in place by clips or tie downs does not meet the intent or technical requirement of providing protected wiring.

RECESSED COMPARTMENT LIGHTING

All side exterior equipment compartments shall be provided with one (1) fully recessed rubber shock mounted sealed and weather tight clear compartment light. The light shall be totally enclosed (not exposed to the environment) and side wall recessed mounted within 12.00" of the compartment ceiling.

When two (2) compartment lights are specified, the second light shall be mounted approximately one half the distances between the upper light and the compartment floor.

The lights shall be a minimum of 4.00" diameter and use recessed wiring, and are to be equipped with wire plugs for ease of removable or replacement.

WHEEL WELL LINER AND FENDERETTES

For ease of accessibility and maintenance, wheel well panels shall be double break formed polished aluminum tread plate that is fully gasketed and bolted in place with stainless fasteners. Wheel wells shall be of the removable design so as to provide replacement in the event of damage. There shall be no visible bolt heads, retention nuts or fasteners on the exterior surface of the panel. Wheel well panel shall be isolated from the apparatus body utilizing .25" nylon spacer blocks.

To fully protect the wheel well area from road debris and to aid in cleaning, a full depth (minimum of 24.00") radius wheel well liner constructed of exterior grade .25" black polyethylene sheet shall be provided. For ease of removal, the liner shall be held in place via means of a self-tension retention system. Due to possible corrosion and contamination by road debris in the wheel well area, mechanical fasteners shall not be used to secure the wheel well liner.

The rear wheel wells shall be radius cut for a streamlined appearance. A polished type 304 stainless steel radius fenderette shall be furnished at each rear wheel well opening, held in place with concealed stainless steel fasteners with nylon isolators to prevent contact of the fastener with the wheel well housing panel. A black rubber gasket shall be installed between the stainless fenderette and the apparatus body sides. Silicone caulking does not meet the intent or the technical requirement of a solid gasket material in this area and is not acceptable.

APPARATUS COMPARTMENTATION

There shall be large enclosed compartments on both sides of the body, starting at the front of the hose body and continuing to the rear of the apparatus. These compartments shall be as large as possible, using all available space.

The aluminum tread plate compartmentation tops on each side of the body shall be extended out and downward a minimum of .50" over the compartment doors forming a drip rail. Corners shall be TIG welded.

Lower or rear face compartments, if specified shall be provided with polished aluminum drip rails.

All high side compartment tops shall be NFPA approved non-slip tread plate.

SIDE AND REAR OVERLAYS

.125" polished aluminum tread plate overlays and panels shall be provided and installed in the following areas: The front face of each side compartment and center rear panel of the apparatus body. Overlays shall be bolted in place and sealed to prevent any moisture entry between the overlay and the body structure.

EXTRUDED ALUMINUM RUB RAILS

Full body length polished aluminum rub rails shall be bolted in place on the right and left body sides. There shall be a bolt on aluminum corner casting on each rear corner to blend the rear tail board assembly with the side rub rails.

The side rub rails shall be a heavy extruded aluminum "C" channel.

REAR BODY (ANGLE OF DEPARTURE)

The lower portion of the rear body shall be raised approximately 4 1/2" to provide a 30 degree angle of departure for off road use.

Aluminum tread plate shall be used to cover the underside of the departure angle unless a pintle hook or receiver hitch is called out which will require the area to be left open.

REAR RUB RAIL

A single piece rear rub rail shall be furnished full width of the apparatus body. Rub rail is to be bolted in place and removable for ease of repair or replacement. No Exception.

COMPARTMENT FLOOR COVERING

All enclosed compartment floors of the apparatus body shall be covered with black colored rigid Turtle Tiles for improved ventilation, and added scuff protection.

ADJUSTABLE SHELVES

Four (4) compartment shelf(s) shall be provided and constructed of .190" smooth Aluminum, and are to have formed upward breaks on front and rear for added strength. Shelf(s) shall be fully adjustable within the compartments. Lighter gauge shelf materials are not acceptable.

Shelf(s) shall extend full width of the compartments, within .25" of the overall width, and adjust up and down in the integral shelf tracks.

EXTERIOR DOOR LOCKS

A keyed cylinder lock shall be provided in the bottom portion of each roll-up door. All locking roll-up doors shall be keyed alike.

ACCESS RAIL

NFPA approved, extruded aluminum ribbed finish "non-slip" access rail with chrome plated mounting brackets shall be provided. Smooth access rails or rails having an adhesive or rubber covering that can loosen over time are not acceptable.

Rubber gaskets shall be installed below each handrail bracket to prevent cracking or fracturing of the painted surface.

One (1) vertical access rail shall be provided and mounted on the rear of the apparatus body.

REAR ACCESS LADDER

The top of the apparatus shall be accessible from the ground by a ladder. The ladder shall be an all welded construction of aluminum tubing and extrusions with the steps having a non-slip surface. The bottom 12" of the ladder shall fold up in a secured position when not in use to maintain a high angle of departure. The ladder will be located on the rear of the apparatus.

SCBA BRACKETS

Two (2) NFPA compliant SCBA mounting brackets with (2) Scott Air-Pak 75's with Pak-alert SE7 PASS device, extended duration air line, 4500 psi bottle and Dual EBSS shall be provided and mounted in the enclosed storage compartments as per instructions of Fire Department. Brackets shall be provided with retention straps and plastic coated clips for bottle scuff protection.

SCBA CAB SEATS

Four (4) NFPA compliant seats with integrated brackets and (4) Scott Air-Pak 75's with Pak-alert SE7 PASS device, extended duration air line, 4500 psi bottle and Dual EBSS shall be provided.

PAINT PROCESS

All apparatus body seams shall be caulked both inside and along the exterior edges with an automotive sealant to prevent moisture from entering between any body panels.

Tacked free of any dust particles, the body and all parts shall be individually sprayed using the following minimum procedure and materials:

- One (1) coat of self etching primer
- Two (2) coats of urethane primer
- Two (2) color coats of the specified color
- Three (3) coats of clear urethane

When a fire pump is provided, the fire pump, pump compartment structural components, and all rigid discharge and suction plumbing is to be painted Silver in color unless otherwise specified by the customer. No exceptions.

While constructing the truck body, all aluminum parts shall be properly fitted on the body and then removed. The back side of all aluminum parts shall be sanded smooth of any burrs and sharp edges.

All aluminum parts shall be bolted to the body using stainless steel fasteners. Zinc or Cadmium plated fasteners are not acceptable.

During reassembly of the apparatus, care shall be exercised in fitting and fastening the parts back in their respective position on the vehicle.

INTERIOR COMPARTMENT FINISH

The interior body compartments shall be left unpainted and have natural finish.

WHEEL PAINTING

The wheels shall be aluminum or equal (no paint).

UNDERCOATING

The entire underside of the chassis cab and apparatus body is to be cleaned and properly prepared for application of a sprayed on automotive type undercoating for added corrosion resistance. Undercoating is to be a solvent based, rubberized coating, Black in color.

TOUCH-UP PAINT

Touch-up paint shall be furnished with the completed truck at final delivery.

LETTERING

6" high lettering shall be done in Scotchlite reflective lettering. Lettering to be placed on each cab door as directed by fire department.

LETTERING/NUMBERING (CAB ROOF) A maximum of four (4) 18" high Scotchlite reflective letters or numbers shall be provided and installed on the chassis cab roof as directed by fire department.

STRIPING

An 8" wide white 3M brand Scotchlite #680-10 reflective stripe shall be affixed to the perimeter of the vehicle. Striping shall be placed up to 60" above ground level and shall conform to NFPA reflectivity requirements. At least 50% of the perimeter length of each side and width of the rear, and at least 25% of the perimeter width of the front of the vehicle shall have reflective stripe. Per fire Departments specifications.

ELECTRICAL

The apparatus shall have the ability to function in an electromagnetic environment most common to fire ground operations. The electrical system shall be designed for full compatibility with low level control frequencies and any high powered two-way radio systems.

All wiring shall be protected by circuit breakers or fuses. Circuit breakers shall be the automatic reset type unless operational requirements and/or safety concerns dictate manual reset type. Automotive type fuses shall be used when required to protect delicate electronic equipment. All circuit protection devices shall conform to the Society of Automotive Engineers (SAE) standards.

All circuit protection devices shall be sized according to 125% of the anticipated load to prevent any wire and/or component damage when subjected to extreme current overload.

All apparatus builder supplied wiring (excluding battery cables) shall be GXL high temperature (250 degrees minimum) type, color and number coded and imprinted with circuit function every 2 inches. Wiring connectors shall be the crimp type with plastic sleeve or shrink tube insulation covering the crimped area to prevent accidental grounding. In-line connectors shall also utilize shrink tubing for a weatherproof connection.

All externally exposed, non-plug type, electrical connections shall be given a hand applied or sprayed application of an industrial standard insulation coating with a minimum rating of 2100 volts per mil thickness. Insulation shall protect the connection from water induced electrical corrosion and accidental short-circuiting. Should the connection be loosened or removed during the manufacturing process another coating shall be applied after it has been refastened or replaced.

All solenoids, relays, terminal blocks and circuit breakers shall be protected against corrosion, excessive heat, vibration, physical damage and water spray.

Any electrical component or device installed in an exposed area on the outside of the cab or body shall be mounted in such a manner, or protected by a gasket, caulking or other means, so that moisture will not accumulate in it.

All exposed electrical wiring shall be run in an automotive type split plastic conduit or woven fabric type loom and shall have rubber grommets installed wherever the harness passes through any sheet metal panels.

An operational test shall be conducted to ensure that all installed electrical equipment is properly connected and is in working order. Additionally all warning lights shall be run continuously for not less than three (3) hours.

Wiring data shall be provided with the completed apparatus.

Exposed wiring will be not be allowed in compartment interiors. No Exception.

The following electrical equipment and lights shall be provided and installed:

REAR STEP LIGHTS

Two (2) Weldon model 9186 (or equivalent) chrome plated lights shall be provided and installed on the rear face of the body to illuminate the rear step area. Lights shall be wired to the panel light switch at the pump operator's panel.

CLEARANCE LIGHTS

Truck-Lite halogen vehicle clearance marker lights (or equivalent) with reflectors mounted in accordance with Highway Safety Standards shall be furnished and installed. Clearance and marker lights shall be recess mounted within the center tailboard/step.

MID BODY TURN SIGNALS

Halogen mid mounted body turn signals shall be installed recess mounted in the vehicle rub rails.

12 VOLT ELECTRICAL CERTIFICATION

The low voltage electrical system shall be tested and certified per NFPA 1901 requirements.

A certificate of compliance shall be provided with the completed vehicle upon delivery.

Minimum electrical load consists of the total amperage required to simultaneously operate the following in a stationary mode at the incident scene.

- The propulsion engine and transmission.
- All Clearance and marker lights.
- The communication radio. (Default of 5.0 amps used for testing).
- Illumination of all walking surfaces, the ground at all egress points, controls and instrument panels and 50% of the total compartment lighting load.
- Minimum warning lights required for "Blocking Right of Way" mode.
- The current to simultaneously operate any fire pump, aerial device & hydraulic pumps.
- Anything defined by the purchaser to be critical to the mission of the apparatus.

The first test for the electrical system is the **Reserve Capacity Test**. All the above listed components operate with the engine shut off. After 10 minutes all electrical loads are shut off and the battery system must have adequate reserve power to start the engine.

The second test is the **Alternator Performance Test at Idle**. All the above listed components operate with the engine at an idle. There can be no current draw from the batteries of the apparatus.

The third test is the **Alternator Performance Test at Full Load**. All electrical components shall be activated with the engine operating at governed RPM for two hours. During the test the system voltage can not drop below 11.7 volts or have excessive battery discharge for more than 120 seconds. Any loads not listed in the minimum electrical load may be load managed in order to pass the test. All of the above tests must be conducted with the engine compartment at approximately 200 degrees.

BACKUP ALARM

An automatic, electronic reverse alarm shall be provided and installed. The alarm shall activate whenever reverse gear is selected in the transmission.

TAIL & BACKUP LIGHTS

Two (2) Weldon #2010 (or equivalent) rectangular RED stop/tail lights shall be provided and mounted at the rear of the body, one on each side. Two (2) Weldon #2010 (or equivalent) rectangular amber

directional signal lights with black arrows shall be provided and mounted at the rear of the body, one on each side.

Two (2) Weldon #2010 (or equivalent) rectangular clear backup lights shall be provided and mounted, one on each side at the rear of the body.

OPEN COMPARTMENT WARNING LIGHT

A RED flashing, warning light shall be provided and installed in the driver's compartment to indicate an open passenger or apparatus compartment door. Light shall be properly marked and identified.

ELECTRONIC SIREN

A Code 3 Model 3692 V-CON, 200 watt electronic siren with Hyper Yelp (or equivalent) and hardwired microphone shall be provided and mounted on top of the cab dash unless stated otherwise, elsewhere in these specifications.

SPEAKER

One (1) Cast Products Model SA2401, (or equivalent) 100 watt speaker shall be provided and recess mounted in the front bumper of the truck and connected to the electronic siren control unit.

RED WARNING LIGHT

One (1) Whelen LFC Liberty SX series LED (or equivalent) light bar mounted on the roof of the cab to meet AC No. 150/5220-19 lighting requirement. The light bar shall be activated through the master emergency light switch located on the electrical console. The light shall have the following:

- Red LED'S

AMBER RUNNING LIGHT

One (1) Code 3 model 550F (or equivalent) rotating light mounted on the roof of the cab to meet AC No. 150/5220-19 lighting requirement. The light shall be activated with the chassis ignition and shall be wired to turn off when the red warning light is activated. The light shall have the following.

- (1) 50 watt fast rotator
- Amber lens

ZONE A FRONT LIGHTS

There shall be two (2) Whelen 700 series linear super LED (or equivalent) furnished on the front grill to meet the NFPA Zone A lower level lighting requirement. The lights shall be connected to a relay and shall be activated through a switch located on the electrical console.

LOWER ZONE C REAR LIGHTS

There shall be two (2) Whelen 700 series linear super LED (or equivalent) furnished on the rear of the apparatus body to meet the NFPA Zone C lower level lighting requirement. The LED lights shall be activated through the master emergency light switch located on the electrical console.

ELECTRICAL CONSOLE

An electrical console shall be constructed of .125" smooth aluminum material and mounted in the cab of the truck chassis. Console shall be designed and installed accessible from the driver and passenger seats. The top face of the console shall be designed as the switch panel for all emergency light switches.

All emergency light switches shall be lighted, push button style. Switches shall be internally lit when the switch circuit is in the on position
The water and foam level gauges shall be incorporated into the console.

EMERGENCY LIGHT SWITCH

The entire warning light package shall be actuated with a single lighted master warning switch in the cab switch panel. The wiring for the warning light package shall engage all of the lights required for "Clearing Right of Way" mode when the vehicle parking brake is not engaged. An automatic control system shall be provided to switch the warning lights to "Blocking the Right of Way" mode when the vehicle park brake is engaged.

SCENE LIGHTS

Two (2) Whelen model 700 Opti-Scenelight 12 volt floodlight(s) (or equivalent) shall be provided and mounted, one each side at the rear of the body. Lights shall be complete with 13 degree lens optics and with switches in the truck cab.

The scene lights shall be mounted in polished aluminum housings.

ENGINE COMPARTMENT WORK LIGHT

One (1) Truck-Lite model #80351 engine compartment work light(s) (or equivalent) shall be provided complete with a push button activation switch mounted on each light head.

PUMP COMPARTMENT WORK LIGHTS

Four (4) Weldon brand pump compartment work light(s) (or equivalent) shall be provided and installed within the pump compartment area activated by the rear door switch.

UNDERBODY LIGHTS

Truck-Lite model 40003, underbody lights (or equivalent) meeting NFPA requirements shall be provided and mounted below running board level, each side of the body controlled by the park brake switch. Lights are to be a minimum 4" diameter sealed and weather tight. Fixtures are to be mounted in bolt on brackets using shock absorbing rubber grommet mounts for ease of repair or replacement.

UNDER CAB LIGHTING

Under cab lights meeting NFPA requirements shall be provided and mounted below each cab door controlled by the park brake switch. Lights are to be a minimum 4" diameter sealed and weather tight. Fixtures are to be mounted in bolt on brackets using shock absorbing rubber grommet mounts for ease of repair or replacement.

LICENSE PLATE BRACKET

A license plate mounting bracket shall be provided complete with a chrome plated shielded indirect type light. Bracket shall be mounted at the rear of the apparatus body.

FLIR

A Flir systems inc. model Pathfinder Flir (or equivalent) system shall be provided with the camera mounted on the bumper turret to provide pan and tilt capability.
A 10" LCD color monitor shall be mounted in the cab.

REAR VIEW SYSTEM

A Safety Vision model SV-CLCD65 rear vision system (or equivalent) with color monitor shall be installed on the apparatus.
All components shall be installed as directed by SETRA.

BATTERY DISCONNECT SWITCH

A green lighted master switch shall be provided and mounted in a convenient location to the driver, connected to a heavy duty solenoid to disconnect the batteries from all chassis and body accessories.

IGNITION SWITCH

A non-removable ignition key shall be provided.

BATTERY CONDITIONER

A 110 volt Kussmaul Auto-Charge 1000, single system, 15 amp, automatic battery charger and power supply (or equivalent) shall be provided and installed within the chassis cab and wired to the battery system. Battery charger shall be 15 amp output type designed to automatically charge the battery system when shoreline power is connected. The charger shall be equipped with a bar graph type charge level indicator to indicate the charge rate. The charger shall have an electronic sensing circuit to sense the true battery voltage while eliminating the need for external wires. Charging is completely automatic, when the battery is fully charged, all charging stops. There is no over charging and no water boil off.

The charger shall have a built in 3 amp battery saver for rechargeable hand lights.

110 VOLT SHORELINE

A 110 volt 20 amp manual shoreline connection shall be provided in the driver's step area.

GENERATOR

A 6 kW PTO driven hydraulically powered generator system shall be supplied and installed. The genset shall be an Onan model CMHG (or equivalent). The genset system shall be capable of producing the nominal output power of 6 kW, 120V, 240V, 60 Hz. The genset shall be installed per the manufacturer recommendations and shall be capable of supplying full power at engine high idle. The genset shall be capable of being switched on or off at any time. The genset field and armature windings shall be of copper magnet wire, coated with class 200 film insulation. The genset alternator shall be capable of accepting a zero power factor load of 200% rated kVA and recover to 90% of rated voltage within ½ second.

A Chelsea, Muncie or equal transmission constant mesh PTO (or equivalent) shall be used. The gear ratio of the PTO shall be selected to provide required genset pump speeds with respect to engine speeds. The hydraulic pump can be directly mounted to the PTO using standard SAE flange or the pump can be remote mounted utilizing a driveshaft. Direct mount pumps on the PTO shall have supports per the manufacturer instructions to avoid stress damage to the PTO mounting face. Remotely mounted pumps shall have adequately sized and configured mounting brackets, driveshaft's and guarding to prevent entangling injuries.

The compartment or installation location for the genset module shall be made per the manufacturer recommendations. Proper cooling air control, service panel access and exhaust air venting shall be demonstrated. The compartment or location shall have an under tray and adequate structure to support the genset module.

The hydraulic system reservoir shall be mounted at least 2 above the pump and shall have access for fluid filling, draining and viewing the sight glass fluid level indicator. Clearance of at least 10" above the

reservoir shall be provided for hydraulic fluid filter service. The system reservoir shall be labeled with the type and approximate amount of fluid required, the fluid shall be Dextron III hydraulic fluid.

All connecting hydraulic hoses & fittings shall be of the size and pressure rating specified by the manufacturer. The hoses shall be adequately protected from chafing or abrasion during operation.

A display meter consisting of 4 numeric LED displays shall be used. The meter shall simultaneously display system voltage, frequency and amperage in each of the two 120V legs. The meter shall also have provisions for toggling to total hours run and oil temp via a mode switch. The display shall be mounted in an area clear for operator observation and near the on/off switch.

The genset shall be capable of being switched on or off by one or multiple switches as required. The on/off control switch (s) shall be mounted in an area convenient for the driver and/or pump operator as required.

The Onan limited warranty covers virtually everything except routine maintenance for the first five years that you own your generator set, or the first 1,000-hours of operation, whichever comes first. In addition, it includes a free 90-day adjustment policy, which provides that Onan will make minor adjustments to your new genset during the first three months you own it - free of charge!

TRAVEL TIME REPAIR ALLOWANCE: In addition to the five-year, 1,000-hour warranty, travel time repair allowance of 2 hours and mileage shall be included for the first 2 years.

CIRCUIT BREAKER PANEL

A twelve (12) place circuit breaker box shall be provided and mounted as close to the generator as possible with manual reset circuit breakers properly labeled. The generator shall be connected to the circuit breaker panel.

120/240 VOLT WIRING SYSTEM

The complete wiring and electrical installation shall conform to present Electrical Code and the National Fire Protection Association standards as applicable to automotive fire fighting apparatus.

The wiring, electrical fixtures and components shall be to the highest industry quality standards available on the market. The equipment shall be the type as designed for mobile type installations subject to vibration, moisture, and severe continuous usage. The following electrical components and wire shall be the minimum acceptable standard for this type of apparatus.

Wiring: All electrical wiring shall be fine stranded copper type THHN. The wire shall be sized to load and circuit breaking rating. Wiring shall be color coded.

Labeling of Equipment: All circuit breakers shall be labeled as to usage. Metal engraved or plastic coded labels shall be provided for all exterior and interior outlets indicating output amperage.

110 VOLT ELECTRICAL TESTS

The apparatus 110 volt electrical system shall be tested and certified by the manufacturer. The certification shall be delivered to the Fire Department with the apparatus.

The generator output shall be tested at 100% of its nameplate rating for a minimum of two (2) hours. The following information is recorded of the generator and its power supply at thirty (30) minute intervals: during the test, voltage, amperage and frequency output of the generator, as well as the oil pressure, water temperature, hydraulic temperature, and battery charge rate, as applicable.

110 VOLT RECEPTACLES

Two (2) NEMA L5-15, 15 amp 110 volt twist lock receptacles shall be provided with weather proof covers. One receptacle shall be mounted on each side in the rear wheel well area of the apparatus body.

TELESCOPING QUARTZ LIGHTING

Two (2) 500 watt Fire Research Focus quartz lights on telescopic poles (or equivalent) shall be provided and mounted one (1) on the right rear and one (1) on the left front of the body corner of the apparatus body, wired to the 110 volt power source.

Lights shall be controlled by a single switch located on the light head.

ADDITIONAL EQUIPMENT

The following equipment shall be provided on the completed apparatus by the apparatus manufacturer.

OPERATION/SERVICE MANUAL

The following applicable documentation shall be supplied upon delivery:

Two (2) electronic copies of Operation/Service manual of the apparatus operations and service Manuals supplied by components manufacturers.

Pump certification when applicable including manufactures record of apparatus construction details.

Certificate of compliance to Electrical Warning System Low Voltage test.

Water tank capacity certificate when applicable.

Line Voltage Electrical System test certificate.

(NFPA 19-14.4.1 - 19.14.4.2)

Certificate of approval for stationary pumping when applicable.

All manuals shall be formatted on CD.

WHEEL CHOCKS

One (1) pair of Zico Model SAC-44 Quic-Chok NFPA compliant wheel chocks shall be provided and mounted under the apparatus running boards in model SQCH-44-H horizontal mounting brackets.

FIRE EXTINGUISHER

One (1) Class D fire extinguisher(s) complete with mounting bracket shall be provided and mounted in a location to be determined by Fire Department.

FIRE EXTINGUISHER

One (1) 20 lb. ABC rated, dry chemical extinguisher(s) complete with running board mounting bracket shall be provided and mounted in a location to be determined by Fire Department.

HAZMAT SPILL KIT

One (1) Darley hazardous material spill kit shall be provided with the vehicle.

RADIO'S

One (1) I-com ICA200 Airfield Radio installed with antenna

One (1) Motorola XTL 1500 800 Radio installed with antenna programmed to the specifications of the Fire Department.

EQUIPMENT REELS

One (1) heavy duty electric cord reel with 200 feet of cord reel shall be self rewinding and placed on the truck as specified by the Fire Department and wired in the generator.

One (1) heavy duty air hose reel with 200 feet of ¼ inch 315 PSI air hose with quick couplings the reel shall be self rewinding and plumbed into the air system of the truck and placed on the truck specified by the Fire Department.

One (1) heavy duty twin line hydraulic rescue tool hose reel with 200 feet of ART 10500 PSI Rescue high pressure hose and placed on the truck as specified by the Fire Department.

EXTRACTION TOOL

One (1) complete hydraulic electrically driven rescue package with a full compliment of tools. The unit shall be connected to the generator and mounted as specified by the Fire Department. All connection shall be of the quarter turn quick disconnect under pressure type.

FAA TESTING

The apparatus shall be tested at the manufacturer's plant to meet the requirements of AC 150/5220-10D for Rapid Intervention Vehicles class 1, 2 or 3, and NFPA 414 2007 edition table 4.1.1d for vehicle water tank capacity 120 to 528 gallons. A copy of the test report shall accompany the apparatus upon delivery.

BID SUBMITTAL CHECKLIST

Items checked below represent components comprising this bid package. If the item **IS NOT** checked, it is **NOT APPLICABLE** to this bid. Bidders are asked to review the package to be sure that all applicable parts are included. If any portion of the package is missing, notify the Purchasing Department immediately. It is the Bidder's responsibility to be thoroughly familiar with all Requirements and Specifications. Be sure you understand the following before you return your bid packet.

- 1. **Cover Sheet –**
- 2. **Table of Contents**
- 3. **Offer and Acceptance Form**
- 4. **General Requirements**
You should be familiar with all of the General Requirements.
- 5. **Special Requirements/Instructions**
Provides information you must know in order to make an offer properly.
- 6. **Specifications**
Contains the detailed description of the product/service sought by the County.
- 7. **Bid Form**
Used to solicit exact pricing of goods/services and delivery costs.
- 8. **Attachments**
 - a. **Bid Guaranty & Performance Bond Information & Requirements**
Applies only to certain bids/proposals. Read carefully and fill out completely.
 - b. **Bid Check Return Authorization Form**
Applies only to certain forms. Read carefully and fill out completely.
 - c. **Vehicle Delivery Instructions**
Included only when purchasing vehicles.
 - d. **Minimum Insurance Requirements**
Included when applicable (does not supersede "Hold Harmless" section of General Requirements).
 - e. **Workers' Compensation Insurance Coverage Rule 110.110**
Applicable for a building or construction contract.
 - f. **Financial Statement**
When this information is required, you must use this form.
 - g. **Reference Sheet**
 - h. **Other -** From time to time other attachments may be included.
 - i. **Signature Page**
 - j. **Conflict of Interest**
 - k. **Good Faith Effort**
 - l. **Notice of Intent (HUB)**
 - m. **Declaration Form (HUB)**
 - n. **Residence Certification/Tax Form**
 - o. **Bid Affidavit**

BIDDER MUST RETURN THIS PAGE WITH OFFER

OFFER AND ACCEPTANCE FORM

OFFER TO CONTRACT

To Jefferson County:

We hereby offer and agree to furnish the materials or service in compliance with all terms, conditions, specifications, and amendments in the Invitation for Bid and any written exceptions in the offer. We understand that the items in this Invitation for Bid, including, but not limited to, all required certificates are fully incorporated herein as a material and necessary part of the contract.

The undersigned hereby states, under penalty of perjury, that all information provided is true, accurate, and complete, and states that he/she has the authority to submit this bid, which will result in a binding contract if accepted by Jefferson County.

We acknowledge receipt of the following amendment(s): _____, _____, _____, _____.

I certify, under penalty of perjury, that I have the legal authorization to bind the firm hereunder:

_____	For clarification of this offer, contact:
Company Name	
_____	_____
Address	Name
_____	_____
City State Zip	Phone Fax
_____	_____
Signature of Person Authorized to Sign	E-mail

Printed Name	

Title	

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ACCEPTANCE OF OFFER

The Offer is hereby accepted for the following items: Term Contract for Airport Fire/Tanker Truck (ARFF Truck) for Jefferson County Airport.

The Contractor is now bound to sell the materials or services listed by the attached contract and based upon the Invitation for Bid, including all terms, conditions, specifications, amendments, etc., and the Contractor's Offer as accepted by Jefferson County.

This contract shall henceforth be referred to as Contract No. 08-063JN. The Contractor has not been authorized to commence any billable work or to provide any material or service under this contract until Contractor receives a purchase order and/or a notice to proceed from the Jefferson County Purchasing Agent.

Countersigned:

Ronald L. Walker
County Judge

Date

Carolyn L. Guidry
County Clerk

BIDDER MUST RETURN THIS PAGE WITH OFFER

BID FORM

Using this form, each Offeror must state its proposed charges. Each Offeror's charges must include the entire cost of providing the services identified in this RFP.

Cost/Fee Proposals may be submitted in any form(s). Cost will be a factor in the County's selection process.

	\$
	\$
Name of Offeror:	
Signature:	
Title:	

Acknowledgment of Addenda (if any):

Addendum 1 _____ Date Received _____
 Addendum 2 _____ Date Received _____
 Addendum 3 _____ Date Received _____

BIDDER MUST RETURN THIS PAGE WITH OFFER

VENDOR REFERENCES

Please list at least three (3) companies or governmental agencies (preferably a municipality) where the same or similar products and/or services as contained in this specification package were recently provided.

THIS FORM MUST BE RETURNED WITH YOUR BID.

REFERENCE ONE

Government/Company Name: _____

Address: _____

Contact Person and Title: _____

Phone: _____ Fax: _____

Contract Period: _____ Scope of Work: _____

REFERENCE TWO

Government/Company Name: _____

Address: _____

Contact Person and Title: _____

Phone: _____ Fax: _____

Contract Period: _____ Scope of Work: _____

REFERENCE THREE

Government/Company Name: _____

Address: _____

Contact Person and Title: _____

Phone: _____ Fax: _____

Contract Period: _____ Scope of Work: _____

BIDDER MUST RETURN THIS PAGE WITH OFFER

SIGNATURE PAGE

As permitted under Article 4413 (32c) V.A.C.S., other governmental entities may wish to participate under the same terms and conditions contained in this contract (i.e., piggyback). In the event any other entity participates, all purchase orders will be issued directly from and shipped directly to the entity requiring supplies/services. Jefferson County shall not be held responsible for any orders placed, deliveries made or payment for supplies/services ordered by another entity. Each entity reserves the right to determine their participation in this contract.

Would bidder be willing to allow other governmental entities to piggyback off this contract, if awarded, under the same terms and conditions? **Yes** **No**

This bid shall remain in effect for ninety (90) days from bid opening and shall be exclusive of federal excise and state and local sales tax (exempt).

The undersigned agrees, if this bid is accepted, to furnish any and all items upon which prices are offered, at the price and upon the terms and conditions contained in the Invitation for Bid, Conditions of Bidding, Terms of Contract, and Specifications and all other items made a part of the accepted contract.

The undersigned affirms that they are duly authorized to execute the contract, that this company, corporation, firm, partnership or individual has not prepared this bid in collusion with any other bidder, and that the contents of this bid as to prices, terms or conditions of said bid have not been communicated by the undersigned nor by any employee or agent to any other bidder or to any other person(s) engaged in this type of business prior to the official opening of this bid. And further, that neither the bidder nor their employees nor agents have been for the past six (6) months directly nor indirectly concerned in any pool or agreement or combination to control the price of goods or services on, nor to influence any person to bid or not to bid thereon.

_____	_____
Bidder (Entity Name)	Signature
_____	_____
Street & Mailing Address	Print Name
_____	_____
City, State & Zip	Date Signed
_____	_____
Telephone Number	Fax Number

E-mail Address	

BIDDER MUST RETURN THIS PAGE WITH OFFER

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor or other person doing business with local government entity	
<p>This questionnaire is being filed in accordance with chapter 176 of the Local Government Code by a person doing business with the governmental entity.</p> <p>By law this questionnaire must be filed with the records administrator of the local government not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006 Local Government Code.</p> <p>A person commits an offense if the person violates Section 176.0006, Local Government Code. An offense under this section is a Class C misdemeanor.</p>	OFFICE USE ONLY
<p>1. Name of person doing business with local governmental entity.</p>	
<p>2. <input type="checkbox"/> Check this box if you are filing an update to a previously filed questionnaire.</p> <p style="margin-left: 40px;">(The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than September 1 of the year for which an activity described in Section 176.006(a), Local Government Code, is pending and not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)</p>	
<p>3. Describe each affiliation or business relationship with an employee or contractor of the local government entity who makes recommendations to a local government officer of the local governmental entity with respect to expenditure of money.</p>	
<p>4. Describe each affiliation or business relationship with a person who is a local government officer and who appoints or employs a local government officer of the local governmental entity that is the subject of this questionnaire.</p>	

BIDDER MUST RETURN THIS PAGE WITH OFFER

CONFLICT OF INTEREST QUESTIONNAIRE

FORM CIQ
Page 2

For vendor or other person doing business with local government entity

5. Name of local government officer with whom filer has affiliation or business relationship. (Complete this section only if the answer to A, B, or C is YES.)

This section, item 5 including subparts A, B, C & D, must be completed for each officer with whom the filer has affiliation or business relationship. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer named in this section receiving or likely to receive taxable income from the filer of the questionnaire?

Yes No

B. Is the filer of the questionnaire receive or likely to receive taxable income from or at the direction of the local government officer named in this section AND the taxable income is not from the local government entity?

Yes No

C. Is the filer of the questionnaire affiliated with a corporation or other business entity that the local government officer serves as an officer or director, or holds an ownership of 10 percent or more?

Yes No

D. Describe each affiliation or business relationship:

6. Describe any other affiliation or business relationship that might cause a conflict of interest.

7.

Signature of person doing business with the governmental entity

Date

BIDDER MUST RETURN THIS PAGE WITH OFFER

GOOD FAITH EFFORT (GFE) DETERMINATION CHECKLIST

This information must be submitted with your bid.

Instructions: In order to determine if a “Good Faith Effort” was made in soliciting HUBs for subcontracting opportunities, the following checklist and supporting documentation shall be completed by the Prime Contractor/Consultant, and returned with the Prime Contractor/Consultant’s bid. This list contains the **minimum** efforts that should be put forth by the Prime Contractor/Consultant when attempting to achieve or exceed the goals of HUB Subcontractor participation. The Prime Contractor/Consultant may extend his/her efforts in soliciting HUB Subcontractor participation beyond what is listed below.

Did the Prime Contractor/Consultant . . .

- Yes No 1. To the extent practical, and consistent with standard and prudent industry standards, divide the contract work into the smallest feasible portions, to allow for maximum HUB Subcontractor participation?

- Yes No 2. **Notify** in writing a reasonable number of HUBs, allowing sufficient time for effective participation of the planned work to be subcontracted?

- Yes No 3. **Provide** HUBs that were genuinely interested in bidding on a subcontractor, adequate information regarding the project (i.e., plans, specifications, scope of work, bonding and insurance requirements, and a point of contract within the Prime Contractor/Consultant’s organization)?

- Yes No 4. **Negotiate** in good faith with interested HUBs, and not reject bids from HUBs that qualify as lowest and responsive bidders?

- Yes No 5. **Document** reasons HUBs were rejected? Was a written rejection notice, including the reason for rejection, provided to the rejected HUBs?

- Yes No 6. If Prime Contractor/Consultant has zero (0) HUB participation, **please explain the reasons why.**

If “No” was selected, please explain and include any pertinent documentation with your bid. If necessary, please use a separate sheet to answer the above questions.

Printed Name of Authorized Representative

Signature

Title

Date

BIDDER MUST RETURN THIS PAGE WITH OFFER

HISTORICALLY UNDERUTILIZED BUSINESS (HUB) SUBCONTRACTING PARTICIPATION DECLARATION FORM

PAGE 1 OF 4

This information must be submitted with your bid.

Prime Contractor: _____ HUB: Yes No

HUB Status (Gender & Ethnicity): _____

Address: _____
Street City State Zip

Phone (with area code): _____ Fax (with area code): _____

Project Title & No.: _____ IFB/RFP No.: _____

Total Contract: \$ _____ Total HUB Subcontract(s): \$ _____

Construction HUB Goals: 12.8% MBE: _____ % 12.6% WBE: _____ %

Sub-goals: 1.7 African-American, 9.7% Hispanic, 0.7% Native American, 0.8% Asian American.
Use these goals as a guide to diversify.

FOR HUB OFFICE USE ONLY:

Verification date HUB Program Office reviewed and verified HUB Sub information Date: _____ Initials: _____

PART I. HUB SUBCONTRACTOR DISCLOSURE

HUB Subcontractor Name: _____

HUB Status (Gender & Ethnicity): _____

Certifying Agency: Texas Bldg & Procurement Comm. Texas Unified Certification Prog.

Address: _____
Street City State Zip

Contact person: _____ Title: _____

Phone (with area code): _____ Fax (with area code): _____

Proposed Subcontract Amount: \$ _____ Percentage of Prime Contract: _____ %

Description of Subcontract Work to be Performed: _____

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**HISTORICALLY UNDERUTILIZED BUSINESS (HUB)
SUBCONTRACTING PARTICIPATION DECLARATION FORM
PAGE 4 OF 4**

Subcontractor Name: _____

Address: _____
Street
City
State
Zip

Contact person: _____ Title: _____

Phone (with area code): _____ Fax (with area code): _____

Proposed Subcontract Amount: \$ _____ Percentage of Prime Contract: _____ %

Description of Subcontract Work to be Performed: _____

Subcontractor Name: _____

Address: _____
Street
City
State
Zip

Contact person: _____ Title: _____

Phone (with area code): _____ Fax (with area code): _____

Proposed Subcontract Amount: \$ _____ Percentage of Prime Contract: _____ %

Description of Subcontract Work to be Performed: _____

I hereby certify that I have read the *HUB Program Instructions and Information*, truthfully completed all applicable parts of this form, and **attached any necessary support documentation as required**. I fully understand that intentionally falsifying information on this document may result in my not receiving a contract award or termination of any resulting contract.

Name (print or type): _____

Title: _____

Signature: _____

Date: _____

E-mail address: _____

Contact person that will be in charge of invoicing for this project:

Name (print or type): _____

Title: _____

Date: _____

E-mail address: _____

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RESIDENCE CERTIFICATION/TAX FORM

Pursuant to Texas Government Code §2252.001 *et seq.*, as amended, Jefferson County requests Resident Certification. §2252.001 *et seq.* of the Government Code provides some restrictions on the awarding of governmental contracts; pertinent provisions of §2252.001 are stated below:

- (3) "Nonresident bidder" refers to a person who is not a resident.
- (4) "Resident bidder" refers to a person whose principal place of business is in this state, including a contractor whose ultimate parent company or majority owner has its principal place of business in this state.

- I certify that _____ [company name] is a Resident Bidder of Texas as defined in Government Code §2252.001.
- I certify that _____ [company name] is a Nonresident Bidder as defined in Government Code §2252.001 and our principal place of business is _____ (city and state).

Taxpayer Identification Number (T.I.N.):	
Company Name submitting bid/proposal:	
Mailing address:	
If you are an individual, list the names and addresses of any partnership of which you are a general partner:	

Property: List all taxable property owned by you or above partnerships in Jefferson County.

Jefferson County Tax Acct. No.*	Property address or location**

* This is the property amount identification number assigned by the Jefferson County Appraisal District.
 ** For real property, specify the property address or legal description. For business property, specify the address where the property is located. For example, office equipment will normally be at your office, but inventory may be stored as a warehouse or other location.

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BID AFFIDAVIT

The undersigned certifies that the bid prices contained in this bid have been carefully reviewed and are submitted as correct and final. Bidder further certifies and agrees to furnish any and/or all commodities upon which prices are extended at the price offered, and upon the conditions contained in the specifications and the Notice to Bidders.

STATE OF _____ COUNTY OF _____

BEFORE ME, the undersigned authority, a Notary Public in and for the State of _____,

on this day personally appeared _____, who
(name)

after being by me duly sworn, did depose and say:

“I, _____ am a duly authorized officer of/agent
(name)

for _____ and have been duly authorized to execute the
(name of firm)

foregoing on behalf of the said _____.
(name of firm)

I hereby certify that the foregoing bid has not been prepared in collusion with any other bidder or other person or persons engaged in the same line of business prior to the official opening of this bid. Further, I certify that the bidder is not now, nor has been for the past six (6) months, directly or indirectly concerned in any pool or agreement or combination, to control the price of services/commodities bid on, or to influence any person or persons to bid or not to bid thereon.”

Name and address of bidder: _____

Fax: _____ Telephone# _____

by: _____ Title: _____
(print name)

Signature: _____

SUBSCRIBED AND SWORN to before me by the above-named
_____ on

this the _____ day of _____, 2007.

Notary Public in and for
the State of _____

BIDDER MUST RETURN THIS PAGE WITH OFFER