

County of Otero Purchasing
1101 New York Ave., Room 118
Alamogordo, NM 88310
(575) 434-0710
FAX (575) 443-2914



Sealed Bid 14-015
Fire Apparatus for Burro Flats VFD
Bid Deadline: Thursday, February 27, 2014
@ 3:00 PM

Procurement Agent: Ginger Herndon

INVITATION FOR BIDS

THE COUNTY OF OTERO IS REQUESTING COMPETITIVE SEALED BIDS FOR THE FOLLOWING GOODS OR SERVICES:

TITLE: BURRO FLATS APPARATUS
BID NO.: 14-015
OPEN: THURSDAY, February 27, 2014 @ 3:00 P.M. local time

FOR ADDITIONAL INFORMATION CONTACT:

GINGER HERNDON PURCHASING AGENT
PHONE: (575) 434-0710

THE OFFICE OF THE PURCHASING AGENT, COUNTY OF OTERO WILL RECEIVE COMPETITIVE SEALED BIDS FOR THE GOODS OR SERVICES DESCRIBED IN THIS BID AT:

VIA MAIL
OTERO COUNTY PURCHASING
1101 NEW YORK AVE. ROOM 118
ALAMOGORDO, NM 88310

HAND CARRIED
OFFICE OF THE PURCHASING AGENT
1101 NEW YORK AVE. ROOM 118
ALAMOGORDO, NM 88310

ANY BIDS RECEIVED AFTER BID OPENING DATE/TIME WILL BE RETURNED UNOPENED. PLEASE USE THE ENCLOSED MAIL LABEL ON THE OUTSIDE OF YOUR ENVELOPE.

NOTE: USE OF THE MAIL SERVICE IS AT YOUR OWN RISK FOR PROPER DELIVERY.

DUE DATE, Thursday, February 27 2014 @ 3:00 PM

Having carefully examined the notice to bidders, general instructions to bidders, terms and conditions, supplemental terms and conditions, and project specifications, addenda(s), the site of the work, the work on the above-named project, the undersigned hereby proposes to furnish all materials, labor, equipment, tools, transportation, services, licenses, fees, permits, etc. (not including New Mexico Gross Receipt Taxes or any additive alternates) required by said documents and to complete all divisions of the work stipulated. The Board reserves the right to reject any or all bids and waive any/all formalities.

SEE ATTACHED SPECIFICATIONS FOR COMPLIANCE

COMPANY NAME: _____

ADDRESS: _____

PHONE# _____

FAX# _____

EMAIL: _____

PRINT NAME: _____

SIGNATURE: _____

RECEIVED ADDENDA NUMBERS: _____, _____, _____, WHEN ISSUED.

IN STATE PREFERENCE NO: _____

SUPPLEMENTAL TERMS AND CONDITIONS

THESE SUPPLEMENTAL TERMS AND CONDITIONS ARE IN ADDITION TO THE GENERAL INSTRUCTIONS, TERMS AND CONDITIONS AND, IN THE EVENT OF A CONFLICT BETWEEN THE PROVISIONS OF THE GENERAL INSTRUCTIONS, TERMS AND CONDITIONS AND THESE SUPPLEMENTAL TERMS AND CONDITIONS, THE PROVISIONS OF THESE SUPPLEMENTAL TERMS AND CONDITIONS SHALL CONTROL.

GUARANTEED PERFORMANCE:

THE BIDDER, IF AWARDED A CONTRACT AS A RESULT OF THIS BID, GUARANTEES THAT THE MATERIALS SUPPLIED ARE CAPABLE OF THE PERFORMANCE REQUIRED IN THE SPECIFICATIONS IN THIS BID, AND AGREES TO MAKE SUCH CHANGES, ADJUSTMENTS OR REPLACEMENTS AS ARE IMMEDIATELY NECESSARY IN ORDER FOR THE MATERIALS TO MEET THE PURCHASING REQUIREMENTS AT NO COST TO THE COUNTY. IF DEFECTS OR SPECIFICATION FAILURES ARE DISCOVERED, THE PURCHASING OFFICER SHALL HAVE THE RIGHT, NOTWITHSTANDING ACCEPTANCE AND PAYMENT TO REQUIRE THE UNIT/ITEM TO BE PROPERLY FURNISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS AT THE COST AND EXPENSE OF THE BIDDER OR THE BIDDER'S SURETY.

INSPECTION OF MATERIALS:

THE COUNTY RESERVES THE RIGHT TO INSPECT MATERIALS PROVIDED BY THE BIDDER THROUGH A CONTRACT RESULTING FROM THIS BID TO DETERMINE THEIR QUALITY, FITNESS AND SUITABILITY. INSPECTION OF THESE MATERIALS MAY BE CONDUCTED WHENEVER THE COUNTY CONSIDERS NECESSARY.

MANUFACTURER'S INFORMATION:

ANY BID MADE IN RESPONSE TO THIS INVITATION MUST INCLUDE THE MANUFACTURER'S MAKE AND MODEL NUMBER (AS APPLICABLE) OF EACH ITEM AND LITERATURE CLEARLY DESCRIBING THE ITEM. FAILURE TO PROVIDE THIS INFORMATION MY RESULT IN REJECTION OF THE BID.

MATERIALS AND WORKMANSHIP:

ALL MATERIALS FURNISHED BY THE BIDDER SHALL BE FREE FROM DEFECTS AND IMPERFECTIONS. WORKMANSHIP SHALL BE IN ACCORD WITH THE BEST INDUSTRY STANDARDS AND PRACTICES. BOTH MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE COUNTY.

BRIBES, GRATUITIES, AND KICKBACKS:

PURSUANT TO 13-1-191 NMSA 1978, REFERENCE TO HEREBY MADE TO THE CRIMINAL LAWS OF NEW MEXICO (INCLUDING 30-14-1, 30-24-2 AND 30-4-1 THROUGH 30-41-3 NMSA 1978), WHICH PROHIBIT BRIBES, KICKBACKS AND GRATUITIES, VIOLATION OF WHICH CONSTITUTES A FELONY. FURTHER, THE PROCUREMENT CODE (13-1-28 THROUGH 13-1-199 NMSA 1978) IMPOSES CIVIL AND CRIMINAL PENALTIES FOR CODE VIOLATIONS.

COLLUSION

NO PROPOSER SHALL BE INTERESTED IN MORE THAN ONE PROPOSAL. COLLUSION AMONG PROPOSERS OR THE SUBMISSION OF MORE THAN ONE PROPOSAL UNDER DIFFERENT NAMES BY ANY FIRM OR INDIVIDUAL SHALL BE CAUSE FOR REJECTION OF ALL PROPOSALS WITHOUT CONSIDERATION.

COUNTY OF OTERO INVITATION FOR BIDS

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| GENERAL INSTRUCTIONS, TERMS AND CONDITIONS |
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IMPORTANT: READ CAREFULLY BEFORE SUBMITTING BIDS. FAILURE TO DO SO SHALL NOT ABSOLVE THE BIDDER FROM RESPONSIBILITY TO PERFORM OR DELIVER AS SPECIFIED.

1. **APPLICABILITY:** Except as otherwise specifically provided in this bid, these General Instructions, Terms and Conditions shall govern the procurement of the items specified in this bid. In the event of a conflict between these General Instructions, Terms and Conditions, Supplemental Conditions or the specifications of this bid, the order of application shall be the Specifications, Supplemental Conditions and the General Instructions, Terms and Conditions. In addition, the Public Purchases Ordinance and promulgated Rules and Regulations shall apply.

2. **DEFINITIONS:** As used in this bid, the definitions of the Public Purchases Ordinance apply including the following.
 - A. **"Bid"** means all documents, including those attached or incorporated by reference, issued by the Purchasing Department for soliciting offers to provide goods, services or construction.

 - B. **"Contract"** means any agreement for the procurement of goods, services, construction or concessions. A Purchase Order issued in response to an offer constitutes a contract.

 - C. **"Contractor"** means an offerer who has been awarded a contract.

 - D. **"County"** means the County of Otero, New Mexico.

 - E. **"Purchase Order"** means a document issued by the Purchasing Office directing the Contractor to deliver goods, services or construction.

 - F. **"Purchasing Office"** means the Purchasing Department of Otero County.

 - G. **"Purchasing Agent"** means the person charged with the responsibility of administering the Department.

 - H. **"Bidder"** means a business that submits a response to a competitive solicitation.

- I. **"Responsible Bidder"** means a business which has the capability in all respects to perform fully the contract requirements set out in the competitive solicitation, and the integrity and reliability which will assure good faith performance, and who has not violated or attempted to violate any provision of law or ethical conduct. Factors which may be considered in determining the offeror's capability to perform, among others, are its financial resources, production or service facilities, service reputation and experience.
- J. **"Responsive Bid"** means a written offer to furnish goods, services or construction in conformity with standards, specifications, delivery terms and conditions, and all other requirements established in a competitive solicitation.
- K. **"Successful Bidder"** means the lowest Responsible Bidder to whom Otero County, on the basis of the County's evaluation, makes an award. A Successful Bidder does not become a contractor until a purchase order is signed by the County.

3. **INSTRUCTIONS TO THE BIDDER**

Sealed Bids are desired from reputable manufacturers of automotive fire apparatus in accordance with the specifications for the apparatus as per attached. These specifications are assumed to be compliant with all current NFPA standards. ***If the vendor knows otherwise, the vendor will notify Otero County Purchasing immediately.***

The apparatus shall meet the detailed requirements of the most current and applicable NFPA Standard and these specifications and any special provision that may be attached.

Pursuant to Sec 13-1-188 NMSA, 1984 Comp., any state agency shall only purchase cars and trucks assembled in North America.

Any exceptions to the bid shall be listed separately and specifications attached are minimum requirements. The specifications submitted herein are all that were available to the Purchaser at the time of this mailing. Minor deviations to the specifications as listed, may be considered.

The apparatus shall be designed to meet the specified rating at 8,000 feet altitude and shall be subjected to off road use; thus engineering, design, and fabrication must allow for the additional stress and strain.

- A. **Submission:** All Bids must be submitted on the Invitation for Bids form enclosed. Failure to do so may disqualify your offer. It is the responsibility of the bidder to submit sufficient additional information to allow for a thorough evaluation of the bid submitted.
- B. **Preparation Method:** All information required in this Bid must be typewritten or handwritten in ink and must be legible. Erasures or other

changes must be initialed by the person signing the offer. Each bid must be signed on the appropriate pages by an individual authorized to bind the bidder submitting the bid.

- C. Unit Prices: The unit price for each item offered shall be shown unless otherwise specified. In the case of a discrepancy between the unit price and the extended price, the unit price will govern in determining the price used for evaluation. Unit prices offered should be for the units specified.
- D. Delivery Time: Delivery time stated in the specifications shall apply. Deviations by the bidder shall be stated. Time, if stated in number of days, will be consecutive calendar days.
- E. Payment Terms: The Invitation for Bids form provides space for the bidder to identify the payment terms that the bidder is offering. Terms of less than twenty (30) days will not be considered. The discount term shall not begin until the goods, services or construction have been delivered and accepted and the correct invoice received in the County Accounts Payable Office.
- F. Freight Policy: Freight will be F.O.B. Destination (As indicated on the Invitation for Bids form), Freight Prepaid, unless otherwise specified in this Bid.
- G. Taxes: Bidders shall not include any applicable gross receipts taxes in its offered price, unless specified otherwise in this bid, and such offer will be construed in the manner. The County will, under appropriate circumstances, furnish a non-taxable transaction certificate. Determination of whether the tax is due and payment of the tax is the responsibility of the bidder. Applicable taxes are to be included in each invoice due and may not be billed more than sixty (60) days after providing the services to which the taxes apply.
- H. New Material, Etc.: All materials, supplies, equipment, and vehicles specified in this Bid shall be new, the latest in production and manufactured within the last twelve (12) months (computed from the date and time of offer opening) unless otherwise indicated. This does not apply to materials, supplies, equipment or vehicles used by the Contractor to provide the required items of tangible personal property, services or construction.
- I. Warranty: The bidder agrees that the items of tangible personal property, services or construction furnished under any contract resulting from this bid shall be covered by the most favorable commercial warranties the bidder gives to any customer for such items. Further, the bidder agrees that the rights and remedies provided in such warranties extend to the County and are in addition to and do not limit any rights afforded to the County by any other clause of this bid. The bidder agrees not to

disclaim warranties of fitness for a particular purpose of merchantability. Warranties shall become effective at the time of acceptance.

- J. Equivalent Bids: Where a product is characteristic of a sole manufacturer, or where a brand name is indicated in the specifications, it shall be defined to mean "minimum acceptable level" or "minimum quality required" by the County unless the specifications state that no substitutions or equivalents will be allowed. If the bidder offers an item other than the one specified, which the bidder considers comparable, the manufacture's name and model number of that item must be specified in the bid and sufficient performance specification and descriptive data provided to permit a thorough evaluation. Failure to provide the appropriate information may result in disqualification of the bid.
- K. **Exception to Specifications:** Bidders are to state any exceptions taken to this bid the bidder is required to furnish the items exactly as specified and to comply with all other requirements of this bid. The bidder shall clearly note the variances and provide adequate documentation of proof that the alternate meets or exceeds specifications.
- L. **Indemnity:** The bidder to whom an award has been made as a result of this bid expressly agrees to defend, indemnify and save harmless the County and its officer, agents and employees from and against any and all claims, suits, demands, actions, or proceedings of every nature and description brought because of any injury or damage received or sustained by any person, persons, or property arising out of the bidder's providing the goods, services for construction pursuant to the bid or by reason of any act or omission, neglect or misconduct of the bidder, the agents, employees or subcontractors of the bidder or the agents or employees of any subcontractor of the bidder. The indemnity required herein shall not be limited by reason of the specification of any particular insurance coverage.
- M. **Patent Indemnity:** If any item furnished pursuant to any contract resulting from this bid shall be covered by any patent, copyright, or application for patent or copyright, the bidder shall defend, indemnify and save harmless the County from any and all loss, cost or expense or any and all claims suits, or judgments as a result of the use of such item in violation of rights under such patent, copyright, or application for patent or copyright.
- N. **Public Inspection:** Each bid shall be open to public inspection, except to the extent the bidder designates trade secrets or other proprietary data to be confidential. Material so designated shall accompany the bid and each page shall be clearly marked and readily separable from the bid in order to facilitate public inspection of the non-confidential portion of the bid. Prices and makes and models or catalog numbers of the items offered, deliveries and terms of payment shall be publicly available at the time of the opening of the bid regardless of any designation to the

contrary. The County shall endeavor to restrict distribution of the material designated as confidential to only those individuals involved in the review and analysis of the bids. Bidders are cautioned that materials designated confidential may nevertheless be subject to disclosure to any New Mexico citizen under the Inspection of Public Records Act (Sections 14-2-1 through 14-2-3 N.M.S.A. 1978)

- O. Material Safety Data Sheets: To comply with the Occupational Health and Safety Regulation 1910.1200 for general standards on handling hazardous materials, material safety data sheets may be required for all or part of the products included on this bid. It is the responsibility of the bidder to make this determination and, if required, a copy of the MSDS must accompany the product when delivered to the end user. Failure to comply with this requirement may cause the delivery of products to be rejected and all costs related to such action to be borne by the bidder.
- P. Pursuant to Sec 13-1-131 NMSA, 1984 Comp., as amended, Otero County reserves the right to reject any and all bids, whole or in part, submitted hereunder, provided that such rejections shall be accompanied by a written statement declaring the reason for the rejections.
- Q. Each bidder shall supply a blueprint drawing of the apparatus being proposed.
- R. If the awarded company fails to deliver the apparatus and equipment within the time specified, it is understood and the company agrees to the amount of one hundred dollars (\$100.00) per unit, per day for each calendar day any work remains incomplete, to a maximum of the contract price may be deducted from the moneys due the contractor, not as a penalty, but as liquidated damages.
- S. Bid proposal shall be accompanied by a certified check, Cashier check, or surety bond in the amount of ten (10) percent of the total price of the bid. The bid surety shall be made payable to this agency and conditioned upon the successful bidder accepting award and submitting an acceptable performance bond. In the event of failure of refusal to comply, the bid surety may be forfeited as liquidated damages because of such failure of default.
- T. Within fourteen (14) calendar days after the official notification of award, the successful bidder shall furnish a performance bond, which is equal to 100% of contract price. The successful bidder and surety shall agree to bind themselves their successors, executors, administrators and assigns, jointly and severally to deliver the fire apparatus to the specifications, general conditions and to the purchase order. This bond shall remain in force until vehicle and equipment have been delivered and accepted. Failure to deliver any part of the order to terms above may be considered by the purchaser as a breach of contract, in which case the fire apparatus and equipment may be rejected and the purchaser has the right to require forfeiture of the full amount of the performance bond as liquidated damages. The attorney's-in-fact, who signs the bonds, must file with the bonds a certificate copy of their power of attorney to sign such bonds.

- U. The awarded vendor is responsible for reporting all test results to the New Mexico State Fire Marshal's Office.
- V. A minimum of \$1,000,000.00 product liability insurance shall be provided and shall show the breakdown of:
 - General Aggregate (other than products, completed operations)
 - Products/completed operation aggregate
 - Personal and Advertising injury
 - Each Occurrence per Location
 - Umbrella/Excess Liability
- W. Please be advised, this contract is null and void if the apparatus does not meet all the requirements stated in the current applicable NFPA Standard.
- X. All purchases are governed by the statues of the State of New Mexico and the regulations of Otero County.
- Y. The awarded bidder shall guarantee for the minimum of period of one (1) year that all new equipment furnished under these specifications shall be free from defects. The vendor shall repair or replace all such defective equipment F.O.B., fire station site. Each bidder must furnish satisfactory evidence of his ability to have warranty work done and where work is to be done.
- Z. Each bidder shall furnish satisfactory evidence of their ability to construct the apparatus as specified and shall state the number of years the company has been actively engaged construction like or equal apparatus's. The location of the factory shall be disclosed.

You signature on the completed bid form will serve as a warranty that your bid is genuine and you agree with all contract provisions. A performance bond may be requested; no charge will be assessed to the County.

- 4. ETHICAL CONDUCT: By submitting its bid in response to this invitation, the bidder certifies that:
 - A. It has not offered, given or agreed to give to any County employee or former employee, a gratuity or offer of employment to influence the preparation of or recommendation of award of this bid;
 - B. It has not retained a person or solicited or secured a County Contract for a contingent fee;
 - C. It has not taken any action in restraint of free competitive bidding in connection with this bid;

D. It has not in any way violated the ethical conduct or other provisions of the County's Public Purchases Ordinance; and

E. It currently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with its performance of any contract resulting from this bid.

5. REQUESTS FOR EXPLANATIONS BY BIDDERS:

A. Requests for Explanation: Any explanation desired by the bidder regarding the meaning or interpretation of specifications or any part of this bid must be requested in writing and received in the Purchasing Department not less than five (5) working days before the bid opening date.

B. Response to Bids: Oral explanations or instructions given prior to the opening of the offer shall not be binding. The Purchasing Department must issue any official explanations, in writing.

6. ADDENDA:

Addenda: Changes or amendments to specifications, conditions or provisions herein may be initiated ONLY through the Purchasing Department in the form of a written addendum.

Any addenda shall become a part of this bid and should be acknowledged either by being signed and returned with the bid or through letter or telegram that arrives prior to the opening of the bid. Failure to do so may result in disqualification of the bid.

It is the responsibility of all vendors considering making a bid in response to this invitation to ensure that they have received all addenda prior to making a bid. Bidders may contact the Purchasing Department to obtain information regarding any addenda issued. Failure to obtain an addendum shall not be grounds for overturning a recommendation of award.

7. CLARIFICATION OF BIDS:

The County may, in the evaluation of bids, request clarification from bidders regarding their bid, obtain additional material or literature, and pursue other avenues of research as necessary to insure that a thorough evaluation is conducted.

8. SUBMISSION OF BID:

A. Time: Bids not received by the time and date indicated on the Invitation for Bids will not be accepted, and will be returned unopened.

B. Hand Carried: Bids may be hand carried to the Purchasing Department at 1101 New York Ave., Room 118, Alamogordo, New Mexico.

- C. Mailed: Bids may be mailed to the attention of the Purchasing Department, County of Otero, 1101 New York Ave., Room 118, Alamogordo, New Mexico 88310. The County shall not be responsible for bids that are mailed and not received by the opening date and time specified in the solicitation.
- D. Envelope Preparation: The envelope/package containing a bid must be sealed and the following identifying information legibly written or typed on the outside.
- 1). Name of Bidder
 - 2). Bid Number assigned by the County to the Invitation for Bids
 - 3). Opening date as identified on the bid or subsequent addenda
- E. **No Other Methods of Bid Delivery: Neither telephone, telegraphic, nor facsimile bid shall be accepted.**

9. EQUAL OPPORTUNITY COMPLIANCE/WORKERS' COMPENSATION:

Otero County does not discriminate on the basis of race, color, national origin, sex, religion, age, or disability in the employment or the provisions of services. The "Contractor" agrees to comply strictly with the policies of "County", as well as all Federal and State Laws pertaining to Equal Employment Opportunity, including the Americans with Disabilities Act, and will not discriminate against any person or deny any person participation or benefit from the performance of this Agreement as a result of any discriminatory action. The "Contractor" agrees to comply with State Laws and rules applicable to workers' compensation benefits for its employees. If the "Contractor" fails to comply with the Workers' Compensation Act and applicable rules when required to do so, the "County" may terminate this agreement.

10. OSHA REQUIREMENTS IN EMPLOYMENT:

Otero County shall contract with Companies or Firms whose operators and equipment meet OSHA (Occupational Safety and Health Administration) standards in their field of expertise.

11. WITHDRAWAL OF BIDS:

A bid may be withdrawn in person at any time BEFORE the scheduled opening of bids, provided a receipt for the withdrawn bids is signed by the bidder or the bidder's authorized representative. The County reserves the right to request proof of authorization to withdraw a bid.

12. OPENING OF BIDS:

Time and Place: Bids will be opened by the Purchasing Department at the time and place identified in this Bid. Openings are open to the public. Bidders are encouraged to attend.

13. DISQUALIFICATION OF BID:

The County reserves the right to reject a bid for, including but not limited to, any one or more of the following circumstances:

- A. In the past the bidder has failed to comply with previous contractual commitments or bids to the County.
- B. In the opinion of the County the bidder is not capable of providing the offered goods, services, or construction as offered or required by the bid or is otherwise not a responsible bidder.
- C. The bidder has not provided sufficient or detailed information which allows for the evaluation of the bid.
- D. In the opinion of the County the offered prices are higher than the prices for which the specified items or services can be purchased on the open market.
- E. The bidder failed to properly fill in any space on the Invitation for Bids form and attached documents where information or a signature is required.
- F. The bidder did not; at the time the bid is made, have an appropriate New Mexico Contractor's License or Certification when one is required by law, regulation or this Bid.
- G. The bidder failed to submit with their bid, bid bonds or other material requirements of the Bid or has otherwise submitted a non-responsive bid.
- H. There are unauthorized additions, conditions, alternate proposals or other irregularities of any kind which might make the bid incomplete, indefinite or ambiguous in meaning.
- I. Bid was not submitted in ink or typewritten or there is any erasure or alteration of words or figures relating to pricing which is not initialed in ink by the bidder.
- J. The County determines that a bid contains any misrepresentations whatsoever.

14. REJECTION/CANCELLATION OF BIDS:

Any solicitation, prior to opening or after opening, may be canceled or any or all bids may be rejected in whole or in part when it is in the best interest of the County.

15. MINOR OR TECHNICAL IRREGULARITIES:

Minor or technical irregularities in a bid, when there is no effect on price, quality or quantity may be waived and clerical errors in a bid may be corrected, if permitted by the Purchasing Officer and are in the best interest of the County.

16. NONCONFORMING/CONDITIONAL, OR COUNTER BIDS:

A bid which is nonconforming or conditional, whether in part or in whole will be rejected.

17. BID ANALYSIS:

The County reserves the right to analyze, examine and interpret any bid for a minimum period of sixty (60) consecutive calendar days, after the scheduled time for the opening of bids. Bids may not be rescinded during this period except for good cause and with the written approval of the Purchasing Officer. In those situations where the analysis/evaluation exceeds the sixty (60) calendar days, bidders may withdraw their bids from consideration.

18. AWARD OF CONTRACT:

- A. **When Award Occurs:** The award of a contract occurs when a Purchase Order is issued or other evidence of acceptance by the County is provided to the bidder. A Recommendation of Award does not constitute award of contract.
- B. **Award:** If a contract is awarded, it shall be awarded to the responsive and responsible bidder whose bid is lowest in total price and is the most advantageous to the County, specifications and other factors considered.
- C. **Basis of Award:** The County reserves the right to award a contract based on this Bid in total or by group of items, on the basis of individual items, or any combination of these, which in the judgment of the Purchasing Officer, best serves the interests of the County, unless otherwise stated in this Bid.
- D. **Contract Changes:** In no case shall a contract be changed without the prior written approval of the Purchasing Officer.
- E. **To qualify for the five percent (5%) in state Resident Preference,** the bidder must provide their assigned Resident Certification Number with their bid (an appropriate place is designated in the Bid Form). If a bidder does not provide their assigned Resident Certification Number with their bid, the bid shall not be considered as made by a resident business or a resident manufacturer and no preference shall be applied during the analysis of that bid.

NOTE: Your State Tax Number is NOT your Resident Certification Number.

19. PROTEST PROCESS:

- A. Any bidder who is aggrieved in connection with a solicitation or award of an Agreement may protest to the County of Otero Purchasing Agent in accordance with the requirements of the County of Otero's Procurement Regulations and the State Procurement Code. The protest should be made in writing within 24 hours after the facts or occurrences giving rise thereto, but in no case later than 15 calendar days after the facts or occurrences giving rise thereto.
- B. In the event of a timely protest under this section, the Purchasing Agent and the County of Otero shall not proceed further with the procurement unless the Purchasing Agent makes a determination that the award of Agreement is necessary to protect substantial interests of the County of Otero (13-1-173 NMSA 1978).
- C. The Purchasing Agent or his designee shall have the authority to take any action reasonably necessary to resolve a protest of an aggrieved bidder concerning procurement. This authority shall be exercised in accordance with adopted regulations, but shall not include the authority to award money damages or attorney's fees (13-1-174 NMSA 1978).
- D. The Purchasing Agent or his designee shall promptly issue a determination relating to the protest. The determination shall:
 - 1) State the reasons for the action taken; and
 - 2) Inform the Protestant of the right to judicial review of the determination pursuant to 13-1-183 NMSA 1978.
- E. A copy of the determination issued under 13-1-175 NMSA 1978 shall immediately be mailed to the Protestant and other bidders involved in the procurement (13-1-176 NMSA 1978).

20. DELIVERY, ACCEPTANCE AND GUARANTEE:

- A. No Delivery Before Purchase Order is Issued: No bidder, including the bidder to whom an award is made shall deliver any item of tangible personal property, commence services or construction prior to the Issuance of a Purchase Order or Notice to Proceed issued by the County Purchasing Department.
- B. Cancellation for Non-Delivery: The County reserves the right to cancel any order not delivered by a guaranteed date stipulated in this bid or any contract resulting from this invitation without liability on the County's part.

- C. Acceptance of Delivery: Acceptance by the County of any delivery shall not relieve the Contractor of any guarantee or warranty, expressed or implied. Such acceptance of delivery shall not be considered an acceptance of services or materials not in accordance with the specifications. Such acceptance of delivery shall not waive the County's right to require replacement of defective material or inadequate service.

21. INSPECTIONS:

- A. Prior To Acceptance of Delivery: All items of tangible personal property, services or construction shall be provided exactly as offered, and may be inspected prior to acceptance of delivery by the County.
- B. Inferior Materials, Etc.: All items of tangible personal property, services or construction found inferior to the quality specified in this Bid, deficient or incorrect in weight, measurement, workmanship, handicraft or otherwise, may be rejected as a whole or in part and then shall be removed by the Contractor at the Contractor's own risk and expense promptly after notice of rejection. The Contractor shall assume responsibility for taking the necessary action to correct or replace the rejected items, within the time frame specified in the notice of rejection.

22. INVOICE AND PAYMENTS:

The Contractor shall submit an accurate invoice, in duplicate, for each purchase. Invoices shall refer to the Purchase Order Number, the Release Form Number if applicable, and shall be itemized unless otherwise specified in this Bid. Invoices are to be mailed to: Otero County Accounts Payable, 1101 New York Ave., Alamogordo, New Mexico 88310. Invoices mailed or provided to any other entity will result in a delay in making payment. Offerors are encouraged to inquire if payments due are not received within thirty (30) days after delivery of goods/services and submittal of invoice by contracting the Accounts Payable at (575) 437-7427

23. DEFAULT/TERMINATION FOR CAUSE:

If, through any cause, the Contractor fails to fulfill the Contractor's obligations under any contract resulting from this Bid in a timely and proper manner, or if the Contractor violates any of the covenants, agreements or stipulations of such contract, the County shall notify the Contractor of such violations in writing and allow the Contractor a reasonable time, set out in the notice, to correct the default. If the default is not corrected within the specified time period the County shall have the right to cancel the contract and any or all other current contracts with the Contractor, and, if applicable, to purchase the required goods or services from another source or sources. The County shall provide written notice to the Contractor specifying the effective date of cancellation. The notice of cancellation may be contained in the notice of default.

If a contract resulting from this Bid is canceled, the Contractor shall not be relieved of liability to the County for damages caused by its breach of the

contract. The County reserves the right to recover such damages, including but not limited to any excess cost incurred in having to purchase contract goods/services from other sources by a deduction from an unpaid balance due to the Contractor, collection against a performance or labor and materials payment bond, a combination of these remedies, or any other legal method available. In addition, the Contractor may be removed from the Purchasing Office Vendor List or determined to be ineligible to respond to future solicitations, as being not responsible.

24. TERMINATION FOR THE CONVENIENCE OF THE COUNTY:

The County may terminate any contract resulting from this Bid at any time by giving at least thirty (30) days' notice in writing of such termination to the Contractor. In such event, the Contractor shall be paid under the terms of the contract for all goods/services provided to and accepted by the County, if ordered or accepted by the County prior to the effective date of termination.

25. TERMINATION FOR LACK OF APPROPRIATIONS:

Funding for the contract resulting from this Bid has been appropriated by the County Commission for the County's current fiscal year. Notwithstanding any other provisions in the contract resulting from this Bid, its continuation beyond the end of the any fiscal year is contingent on the County Commission making the appropriations necessary to fund the contract. If sufficient appropriations are not made the contract may be terminated at the end of the County's then current fiscal year upon written notice given by the County to the Contractor. Such termination shall not constitute a default. All payment obligations of the County and all of its interest in the contract will cease upon the date of termination. The County's decision as to whether sufficient appropriations are available shall be accepted by the Contractor and shall be final.

26. CAMPAIGN CONTRIBUTION FORM

In accordance with Appendix C, Offerors must comply with 13-1-191.1 pertaining to the disclosure of campaign contributions to an applicable public official of a local public body.

Offeror(s) shall submit the "Campaign Contribution Disclosure Form" with their proposal submittal. Any Offeror who fails to comply with this requirement will be disqualified, no exceptions. (MUST BE SIGNED)

27. **UTILIZE BD**

In accordance with NMSA 13-1-129 of the procurement code, offerors are hereby notified that other government entities within the State of New Mexico, or as otherwise allowed by their respective governing directives, may contract for the goods or services included in this procurement document with the awarded contractor. Contractual engagements accomplished under this provision shall be solely between the awarded vendor and the contracting government entity with no obligation by Qtero County.

Sealed Bid #14-015

Opening Date: 2/27/14
Time: 3:00 PM

**B I D F O R M
F I R E A P P A R A T U S
B U R R O F L A T S
V O L U N T E E R F I R E D E P A R T M E N T**

**SEE ATTACHED SPECIFICATIONS---

YEAR: _____

MAKE: _____

MODEL: _____

WARRANTY: _____

DELIVERY DATE: _____

SERVICE: _____

LOCATION OF AVAILABLE SERVICE

THIS OFFER IS GOOD FOR A PERIOD OF: (MINIMUM 60 DAYS) _____

TOTAL PRICE: \$ _____

PRINT NAME OF AUTHORIZED REPRESENTATIVE

SIGNATURE OF AUTHORIZED REPRESENTATIVE/DATE

INSTATE BIDDERS PREFERENCE NUMBER

**OTERO COUNTY PURCHASING
TERMS & CONDITIONS
UNLESS OTHERWISE SPECIFIED.**

1. **BIDS ARE TO COMPLY WITH ALL INSTRUCTIONS AND PROVIDE THE INFORMATION REQUESTED. FAILURE TO DO SO MAY DISQUALIFY YOUR BID.** All bid items are to be NEW and of most current production, unless otherwise specified.
2. Samples of items, when required, must be furnished free of expense prior to the opening of bids and if not destroyed, will, upon request, be returned at the bidders expense.
3. Prices should be stated in units or quantity specified, with packing included. All deliveries will be F.O.B. Alamogordo, NM unless otherwise specified.
4. Time or proposed delivery must be stated in definite terms. If time varies for different items, the bidder should so state.
5. Time of delivery shall be stated as the number of calendar days following receipt of the order either verbally or in writing, whichever is received first by the vendor, to receipt of the goods or services by Otero County.
6. Time of delivery may be a consideration in the award.
7. **Envelopes containing bids must be sealed and marked with name, address of the bidder, due date, and bid number.**
8. **IMPORTANT:** Bids not received in the office of the Purchasing Agent at the time of opening are disqualified and will be returned unopened.
9. Corrections and/or modifications received after the opening time specified will not be accepted.
10. Where an item is specified by brand name and numbers these are used in these specifications as a matter of convenience to indicate quality, type, and features desired. Accordingly demonstrably equal merchandise will be given full consideration and the bidder is invited to offer such, except where it is clearly stated that such brand names and/or models are specified for the purpose of standardization. Any "or equal" items offered must be substantially equal to the appearance, design, dimensions, approximate cost of the item specified, and must be of equivalent materials, function, and sturdiness of construction of the item specified. Any deviation from specifications must be clearly itemized by the bidder.
When offering substitutions, please specify, and include descriptive literature.
11. When brand, number, or level of quality is not stated by the bidder, it is understood the offer is exactly as specified.
12. Otero County is exempt from paying sales tax for materials and federal excise taxes. Do not include those taxes in bid. A nontaxable transaction certificate will be provide when payment is made. Services and tax on labor only are not exempt.
13. If your bid is accepted, you will receive notification either verbally or in writing by an issuance of a Purchase Order Number authorizing you to make delivery. Only the accepted bidder will be notified of awards.
14. **ATTENTION BOOKKEEPING & AUDITING DEPARTMENTS:** Complete payment will be made only when entire order is filled, with the exception of "Open Order Purchases", unless otherwise stated on purchase order. **EXCEPTION: Partial payments will be allowed upon written notification and approval if order cannot be completed in a single shipment.** Payment terms are Net 30 days unless otherwise stated.
15. All addenda so issued shall become part of the bid documents.
16. Pricing shall remain effective for a minimum of thirty
(30) days after bid opening date.

CONDITIONS

1. The Purchasing Agent reserves the right to reject any and all bids, to waive any informality in bids, and **unless** otherwise specified to the bidder, to accept any item on the bid.
2. In case of error in the extension of prices in the bid, the unit price will govern.
3. Prompt payment discounts will not be considered in computing the low bid. Otero County will take advantage of cash discounts offered wherever possible.
4. Time in connection with discount offered will be computed from date of delivery or from date correct invoice is received, whichever is later.
5. Final inspection and acceptance will be made at the destination. Supplies rejected at the destination for non-conformance with specifications shall be removed at the vendor's risk and expense, promptly after notice of rejection.
6. Otero County requires vendor certification be the New Mexico State Purchasing Agent before the 5% in-state bidding preference can be extended. Bidders claiming this preference must show certification number on bid and must be prepared to show evidence of certification for the commodity being bid. In-state vendors: failure to secure above will result in non-considerations of any preference for in-state bidders. This will not apply when Federal funds are used, Chapter 13-1-21.
7. Otero County reserves the right to award by item, group of items, or total bids; to reject any and all bids in whole or in part if, in the judgment of the Purchasing Agent, the best interests of Otero County will be served.
8. The Otero County Purchase Order Number shall be shown on all packing, delivery tickets, and other correspondence in connection with the shipment. The user's count will be accepted by the Vendor as final and conclusive on all shipments not accompanied by a packing ticket.

The Vendor's invoice shall be submitted and contain the following information: order number, description of supplies or services, quantities, unit prices, and extended totals. Separate invoices shall be rendered for each and every complete shipment.

9. Otero County reserves the right to cancel all or any part of this order without cost to the County, if the Vendor fails to meet the provisions of this order and, except as otherwise provided herein, to hold the Vendor liable for any excess cost occasioned by the County due to the Vendor's default. The Vendor shall not be liable for any excess costs if failure to perform the order arises out of cause beyond the control and without the fault or negligence of the Vendor, such causes include, but are not restricted to, acts of God or of the public enemy, acts of the State or of the Federal Government, fires, goods, epidemics, quarantine restrictions, strikes, freight embargo's, unusually severe weather, and defaults of subcontractors due to any of the above, unless Otero County shall determine that the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the Vendor to meet the required delivery scheduled. The rights and remedies of the county provided in this paragraph shall not be exclusive and are in addition to any other rights now being provided by law or under this order.
10. In signing this bid or accepting Purchase Order, the Vendor certifies he/she has not, either directly or indirectly, entered into action in restraint of free competitive bidding in connection with this proposal submitted to Otero County Purchasing Agent.
11. Sections 13-1-28 through 13-1-199 NMSA 1978, imposes civil and criminal penalties for its violation. The New Mexico criminal statutes impose felony penalties for bribes, gratuities, and kickbacks.
12. **THIS BID/AWARD IS CONTINGENT UPON AVAILABLE FUNDING.**

(terms)

rev 05/96

CAMPAIGN CONTRIBUTION DISCLOSURE FORM

Pursuant to the Procurement Code, Sections 13-1-28, et seq., NMSA 1978 and NMSA 1978, § 13-1-191.1 (2006), as amended by Laws of 2007, Chapter 234, any prospective contractor seeking to enter into a contract with any state agency or local public body **for professional services, a design and build project delivery system, or the design and installation of measures the primary purpose of which is to conserve natural resources** must file this form with that state agency or local public body. This form must be filed even if the contract qualifies as a small purchase or a sole source contract. The prospective contractor must disclose whether they, a family member or a representative of the prospective contractor has made a campaign contribution to an applicable public official of the state or a local public body during the two years prior to the date on which the contractor submits a proposal or, in the case of a sole source or small purchase contract, the two years prior to the date the contractor signs the contract, if the aggregate total of contributions given by the prospective contractor, a family member or a representative of the prospective contractor to the public official exceeds two hundred and fifty dollars (\$250) over the two year period.

Furthermore, the state agency or local public body may cancel a solicitation or proposed award for a proposed contract pursuant to Section 13-1-181 NMSA 1978 or a contract that is executed may be ratified or terminated pursuant to Section 13-1-182 NMSA 1978 of the Procurement Code if: 1) a prospective contractor, a family member of the prospective contractor, or a representative of the prospective contractor gives a campaign contribution or other thing of value to an applicable public official or the applicable public official's employees during the pendency of the procurement process or 2) a prospective contractor fails to submit a fully completed disclosure statement pursuant to the law.

The state agency or local public body that procures the services or items of tangible personal property shall indicate on the form the name or names of every applicable public official, if any, for which disclosure is required by a prospective contractor.

THIS FORM MUST BE INCLUDED IN THE REQUEST FOR PROPOSALS AND MUST BE FILED BY ANY PROSPECTIVE CONTRACTOR WHETHER OR NOT THEY, THEIR FAMILY MEMBER, OR THEIR REPRESENTATIVE HAS MADE ANY CONTRIBUTIONS SUBJECT TO DISCLOSURE.

The following definitions apply:

“Applicable public official” means a person elected to an office or a person appointed to complete a term of an elected office, who has the authority to award or influence the award of the contract for which the prospective contractor is submitting a competitive sealed proposal or who has the authority to negotiate a sole source or small purchase contract that may be awarded without submission of a sealed competitive proposal.

“Campaign Contribution” means a gift, subscription, loan, advance or deposit of money or other thing of value, including the estimated value of an in-kind contribution, that is made to or received by an applicable public official or any person authorized to raise, collect or expend contributions on that official's behalf for the purpose of electing the official to statewide or local office. “Campaign Contribution” includes the payment of a debt incurred in an election campaign, but does not include the value of services provided without compensation or unreimbursed travel or other personal expenses of individuals who volunteer a portion or all of their time on behalf of a candidate or political committee, nor does it include the administrative or solicitation expenses of a political committee that are paid by an organization that sponsors the committee.

“Family member” means spouse, father, mother, child, father-in-law, mother-in-law, daughter-in-law or son-in-law of (a) a prospective contractor, if the prospective contractor is a natural person; or (b) an owner of a prospective contractor.

“Pendency of the procurement process” means the time period commencing with the public notice of the request for proposals and ending with the award of the contract or the cancellation of the request for proposals.

“Prospective contractor” means a person or business that is subject to the competitive sealed proposal process set forth in the Procurement Code or is not required to submit a competitive sealed proposal because that person or business qualifies for a sole source or a small purchase contract.

“Representative of a prospective contractor” means an officer or director of a corporation, a member or manager of a limited liability corporation, a partner of a partnership or a trustee of a trust of the prospective contractor.

Name(s) of Applicable Public Official(s) if any: _____
(Completed by State Agency or Local Public Body)

DISCLOSURE OF CONTRIBUTIONS BY PROSPECTIVE CONTRACTOR:

Contribution Made By: _____

Relation to Prospective Contractor: _____

Date Contribution(s) Made: _____

Amount(s) of Contribution(s) _____

Nature of Contribution(s) _____

Purpose of Contribution(s) _____

(Attach extra pages if necessary)

Signature Date

Title (position)

-OR-
NO CONTRIBUTIONS IN THE AGGREGATE TOTAL OVER TWO HUNDRED FIFTY DOLLARS (\$250) WERE MADE to an applicable public official by me, a family member or representative.

Signature Date

Title (Position)

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

INTENT OF SPECIFICATION

It is the intent of these specifications to cover our bid for purchase and delivery of a complete apparatus equipped as hereinafter specified. With a view to obtaining the best results and the most acceptable apparatus for service in the fire department, these specifications cover the general requirements as to the type of construction, together with certain details as to finish, equipment and appliances with which the successful bidder must conform. Minor details of construction and materials where not otherwise specified are left to the discretion of the contractor, who will be solely responsible for the design and construction of all features.

ADHERENCE TO SPECIFICATIONS

In order to closely evaluate all bids and determine the responsiveness to our request, each proposal must be submitted in the same order as the specifications for ease of comparison. Each item must have a check mark in the appropriate column indicating compliance. Those items that are different by brand, model number (when applicable), and operational performance must be clearly defined and listed separately on a document clearly identified as "Clarifications and Substitutions". Vendors failing to comply with this request are subject to immediate rejection without further cause. (NO EXCEPTIONS)

SAFETY REQUIREMENTS

The unit specified meets **all** NFPA, State and Federal safety standards and laws that are in effect on the date of the bid for the item(s) that are being specified and the particular use for which they are meant.

QUALITY AND WORKMANSHIP

The design of the apparatus shall embody the latest approved automotive engineering practices, experimental designs and methods shall not be acceptable. The workmanship shall be of the highest quality in its respective field. Special consideration is given to the following points: accessibility of the various units that require periodic maintenance, ease of operation (including both pumping and driving) and symmetrical proportions. Construction shall be rugged and ample safety factors shall be provided to carry loads as specified.

DELIVERY & TERMS

The apparatus shall be paid in full upon acceptance by Otero County at the manufacturer's facility upon completion.

GENERAL CONSTRUCTION

The complete apparatus, assemblies, subassemblies, component parts and so on, will be designed and constructed with due consideration to the nature and distribution of the load to be sustained and to the general character of the service to which the apparatus is to be subjected when placed in service. All parts of the apparatus will be strong enough to withstand the general service under full load. The apparatus will be so designed that the various parts are readily accessible for lubrication, inspection, adjustment and repair.

The apparatus will be designed and constructed, and the equipment so mounted, with due consideration to distribution of the load between the front and rear axles, that all specified equipment, including a full

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

compliment of specified ground ladders, full water tank, loose equipment, and firefighters; will be carried without overloading or injuring the apparatus.

YES _____ NO _____ EXCEPTION _____

OPERATION AND SERVICE DOCUMENTATION

The documentation will address at least the inspection, service, and operations of the fire apparatus and all major components thereof. The manufacturer shall also provide documentation of the following items for the entire apparatus and each major operating system or major component of the apparatus:

1. Manufacturers name and address
2. Country of manufacture
3. Source of service and technical information
4. Parts and replacement information
5. Descriptions, specifications, and ratings of the chassis, pump, and aerial device
6. Wiring diagrams for low voltage and line voltage systems to include the following information: representations of circuit logic for all electrical components and wiring, circuit identification, connector pin identification, zone location of electrical components, safety interlocks, alternator-battery power distribution circuits, and input/output assignment sheets or equivalent circuit logic implemented in multiplexing systems
7. Lubrication charts
8. Operating instructions for the chassis, any major components such as a pump or aerial device, and any auxiliary systems
9. Precautions related to multiple configurations of aerial devices, if applicable
10. Instructions regarding the frequency and procedure for recommended maintenance
11. Overall apparatus operating instructions
12. Safety considerations
13. Limitations of use
14. Inspection procedures
15. Recommended service procedures
16. Troubleshooting guide
17. Apparatus body, chassis, and other component manufacturers warranties
18. Special data required by this standard
19. Copies of required manufacturer test data or reports, manufacturer certifications, and independent third-party certifications of test results (Mid-ship Pump)

YES _____ NO _____ EXCEPTION _____

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

MANUFACTURING LABELS

A permanent plate shall be mounted in a compartment specifying the quantity and type of the following fluids that may be used in the apparatus for normal maintenance.

Where a fluid is not applicable to the unit, the plate shall be marked N/A to inform the service technician who may not be familiar with the apparatus.

- Engine oil
- Engine coolant
- Transmission fluid
- Pump transmission fluid
- Pump primer fluid
- Drive axle fluid
- Air conditioning refrigerant
- Power steering fluid
- Cab tilt mechanism fluid
- Transfer case fluid
- Equipment rack fluid
- Air compressor system lubricant
- Generator system lubricant
- Front tires air pressure
- Rear tires air pressure

YES _____ NO _____ EXCEPTION _____

REQUIRED LABELS:

SEAT BELT SIGN: An accident prevention sign stating “**Danger Personnel Must Be Seated And Seat Belts Must Be Fastened While Vehicle Is In Motion Or Death or Serious Injury May Result.**” shall be visible from each seating position.

SEATING CAPACITY SIGN: A permanent sign shall be installed in the drivers compartment specifying the maximum number of personnel the vehicle is designed to carry (seating capacity) per NFPA standards. It shall be located in an area visible to the driver and shall read “**SEATING CAPACITY (2)**”.

ACCIDENT PREVENTION SIGN: An accident prevention sign stating “**Danger Do Not Ride On Rear Step While Vehicle Is In Motion, Death Or Serious Injury May Result**” shall be placed so it is visible from the rear step of the vehicle. A similar sign shall be placed on the top mount walkway.

SUCTION INLET SIGN: If an inlet located at the pump operator’s position is valved, it shall be provided with a permanent label that states “**Warning Death Or Serious Injury Could Occur If Inlet Is Supplied By A Pressurized Source When The Valve Is Closed**”.

OVERALL TRAVEL CLEARANCE PLATE: There shall be a travel clearance warning label located in the chassis cab. The travel clearance warning label to be located in easy view of the driver. The travel

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

clearance warning label to include the following information: **Overall travel clearance height in feet and inches.**

GVW SIGN: The manufacturer shall supply the final manufacturer's furnished certification of GVWR and GAWR on a nameplate affixed to the vehicle.

TYPE OF FUEL SIGN: A "Diesel Fuel Only" name tag shall be attached to fuel fill access door.

FINAL STAGE LABEL: A nameplate shall certify that the completed vehicle conforms to the motor vehicle safety standards previously certified by the chassis manufacturer and that the final stage Manufacturer has not altered the certification. All nameplates and instruction plates shall be metal or plastic with the information permanently engraved, stamped, or etched thereon. Metal nameplates to be installed with plated screws. All nameplates to be mounted in a conspicuous place.

YES _____ NO _____ EXCEPTION _____

NFPA COMPLIANCE

NFPA COMPLIANCE

The successful bidder shall agree to furnish a complete apparatus in compliance with the latest published version of NFPA 1901. Manufacturers whose apparatus does not meet the intent of the latest published version of NFPA 1901 shall be considered non-compliant and cause for bid rejection.

The chosen manufacturer shall comply with NFPA 1901 Chapter 4 titled General Requirements as they pertain to the requested type of apparatus.

All fire apparatus shall comply with the following NFPA 1901 chapters:

- (1) Chapter 1, "Administration"
- (2) Chapter 2, "Referenced Publications"
- (3) Chapter 3, "Definitions"
- (4) Chapter 4, "General Requirements"
- (5) Chapter 12, "Chassis and Vehicle Components"
- (6) Chapter 13, "Low Voltage Electrical Systems and Warning Devices"
- (7) Chapter 14, "Driving and Crew Areas"
- (8) Chapter 15, "Body, Compartments, and Equipment Mounting"

After acceptance of the fire apparatus, Otero County shall be responsible for ongoing training of personnel to develop and maintain proficiency regarding the proper and safe use of the apparatus and the associated equipment.

Special notice is given to the following areas that were changed in the 2009 revision. It is the responsibility of the successful bidder to be familiar with all applicable areas of NFPA. This list is not all-inclusive and shall not be construed as such.

YES _____ NO _____ EXCEPTION _____

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

APPARATUS TOP SPEED

The maximum top speed of fire apparatus with a GVWR over 26,000 lb (11,800 kg) shall not exceed either 68 mph (105 km/hr) or the manufacturer's maximum fire service speed rating for the tires installed on the apparatus, whichever is lower.

If the combined water tank and foam agent tank capacities on the fire apparatus exceed 1250 gal (4732 L), or the GVWR of the vehicle is over 50,000 lb (22,680 kg), the maximum top speed of the apparatus shall not exceed either 60 mph (85 km/hr) or the manufacturer's maximum fire service speed rating for the tires installed on the apparatus, whichever is lower.

YES _____ NO _____ EXCEPTION _____

VDR DATA

The completed apparatus shall have a VDR Data recorder installed. The following information shall be collected.

- Vehicle speed in mph
- Acceleration (from speedometer) mph/sec
- Deceleration (from speedometer) mph/sec
- Engine speed rpm
- Engine throttle position % of full throttle
- Anti-lock braking system event On/off
- Seat occupied status Occupied: Yes/No by position
- Seat belt status Buckled: Yes/No by position
- Master optical warning device switch On/off
- Time 24-hour clock
- Date Year/month/day

Memory shall be sufficient to record 100 engine hours' worth of minute-by-minute summary showing the data in Table 4.11.4.

When the memory capacity is reached, the system shall erase the oldest data first.

All data stored in the VDR shall be uploadable by the user to a computer and importable into a data management software package.

Data shall be password protected with access controlled by the purchaser.

Software shall be delivered with the apparatus that will run on both Windows® and Apple® operating systems and produce the following formatted reports from the uploaded data:

- (1) Raw second-by-second data over a specified data/time range
- (2) Daily log for the time the engine is running for a given date (minute-by-minute output of all values)
- (3) Weekly summary (maximum values each hour for each day of the week)
- (4) Monthly summary (maximum values each day for each day of the month)

YES _____ NO _____ EXCEPTION _____

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

SEAT BELT INDICATORS

Signs that read "Occupants Must be Seated and Belted When Apparatus Is in Motion" shall be visible from each seated position.

Each seating position that is not intended to be used during transit shall be individually labeled as follows: WARNING: THIS SEAT IS NOT TO BE OCCUPIED WHILE VEHICLE IS IN MOTION.

A seat belt warning system shall be provided.

The warning system shall consist of an audible warning device that can be heard at all seating positions designed to be occupied while the vehicle is in motion and a visual display visible to the driver or the officer showing the condition of each seating position.

The warning shall be activated anytime the parking brake is released or the automatic transmission is not in park.

The seat position display shall indicate conditions in accordance with Table 14.1.3.10.3.

The display indication shall be permitted to consist of lights, text, graphical indicators, digital displays, or other methods.

The warning system shall not show an affirmative indication unless it has determine

YES _____ NO _____ EXCEPTION _____

TIRE PRESSURE MONITORING

Each tire shall be equipped with a visual indicator or monitoring system that indicates tire pressure.

ELECTRONIC STABILITY CONTROL

This vehicle is equipped with the Bendix Electronic Stability Control system (ESC) to meet the requirements of NFPA 1901, 2009 Edition Section 4.13.1.2.

YES _____ NO _____ EXCEPTION _____

OEM WARRANTY

GENERAL WARRANTY

The following warranty shall be furnished. (Vendor) shall warrant each new piece of Fire Apparatus to be free from defects in material and workmanship under normal use and service. The vendors obligation under this warranty at a minimum is to repair or replace, as the Company may elect, any part or parts thereof which will be returned to the vendor with transportation charges prepaid and as to which examination will disclose to the Company's satisfaction to have been defective, provided that such part, or parts will be returned to the vendor no later than one (1) year after delivery of covered apparatus. Such defective part or parts will be returned or replaced free of charge and without charge for installation to Otero County.

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

This warranty will not apply to:

- 1) Normal maintenance services or adjustments.
- 2) To any vehicle which will have been repaired or altered outside of our factory in any way so as, in our judgment, to affect it's stability, nor which has been subject to misuse, negligence, or accident, nor to any vehicle made by us which will have been operated to a speed exceeding the factory rated speed, or loaded beyond the factory rated load capacity.
- 3) Commercial chassis and associated equipment furnished with chassis, signaling devices, generators, batteries, or other trade accessories as they are usually warranted separately by their respective manufacturers. This warranty is in lieu of all other warranties, expressed or implied. All other representations as to the original purchaser and all other obligations or liabilities, including for incidental or consequential damage on the Company's behalf unless made in writing by the Company.

PUMP WARRANTY

Five (5) year (minimum) pump warranty to the original owner.

TANK WARRANTY

“Lifetime” warranty on the water tank.

5 YEAR PAINT WARRANTY

The manufacturer shall warrant each new fire and rescue apparatus manufactured by it, if used in a normal and reasonable manner, against rust through, blistering, peeling or cracking of painted surfaces for a period of five (5) years or 50,000 miles, parts & labor to the original purchaser starting the day of final delivery. The manufacturer’s obligation under this warranty is strictly limited to repairing or repainting, as the Company may elect any defective part.

10 YEAR BODY & SUBFRAME WARRANTY

The manufacturer shall warrant each new fire body manufactured by it, if used in a normal and reasonable manner, against structural defects caused by defects in material, design or workmanship for a period of ten (10) years or 100,000 miles, the parts & labor to the original purchaser starting the day of final delivery.

APPARATUS CHASSIS

APPARATUS CHASSIS

Model: 2014 Peterbilt Model 348

Front Axle Load (lbs): 14600

Wheelbase (in): 214

Fr Axle to BOC (in):69.8

Cab to Axle (in): 132.2

Cab to EOF (in): 214.0

Type: Full Truck Rear Axle Load (lbs) 26000

G.C.W. (lbs): 40600

YES _____ NO _____ EXCEPTION _____

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

APPLICATION ROAD CONDITIONS:

Intended Service: Fire Engine - Pumper Class-A

FRAME & EQUIPMENT

10-5/8in Steel Rails, Steel Crossmembers, 278-326in
10ft Steel Frame Insert BOC
Three-Piece Crossmembers
Huck Bolt All Accessible Frame Components

YES ___ NO ___ EXCEPTION ___

FRONT AXLE & EQUIPMENT

Dana Spicer E1462I 14,600 lb, 3.5in Drop
Bendix ES cam brakes, 11-1/4in bolt circle.
Taper Leaf Springs with Shocks 14,600 lbs
Power Steering TRW TAS85
Power Steering Reservoir Frame Mounted
PHP10 Alum LMS Hubs, Cast Drums, 16.5x5 Brakes
Includes Bendix EES420 brake linings, non-asbestos.

YES ___ NO ___ EXCEPTION ___

REAR AXLE & EQUIPMENT

Dana Spicer S25-170, 26,000 lb
PHP10 Iron Hubs, Cast Drums, 16.5x7 Cam Brakes
Bendix 4S4M ABS, SBM Valve ABS-6
Synthetic Axle Lubricant, All Axles
Single Drive Axle (Model 340)
Ratio 6.14 Rear Axle
Reyco 79KB Multi Leaf 26,000 Lb
Reyco Helper Springs 3,000 lbs

YES ___ NO ___ EXCEPTION ___

ENGINE & ENGINE EQUIPMENT

PACCAR PX-8 **350HP**/2200
350@2000 1050@1400
Fire Service Only.
Includes alum flywheel housing, cruise control and J1939 provisions.
2008 CARB Engine Idling Compliance

YES ___ NO ___ EXCEPTION ___

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

ALTERNATOR

270 Amp Alternator
Two (2) PACCAR Premium 12V Dual Purpose Batteries 1400 CCA
Threaded Stud Type Terminal

Immersion Type Pre-heater 110-120V
PACCAR 12V Starter
Includes 3 year/350,000 mile extended warranty for On-Highway applications or 1 year/50,000 mile warranty for Off-Highway applications.

YES ___ NO ___ EXCEPTION ___

AIR COMPRESSOR

18.7 CFM Air Compressor*
(If chassis air compressor does not comply with minimum requirements of NFPA, an onboard auxiliary air compressor shall be installed)

YES ___ NO ___ EXCEPTION ___

EXHAUST BRAKE

VGT Exhaust Brake (2007 Engines)
(Variable Geometry Turbo). Provides approximately 90-100 HP of retardation and is part of the turbocharger.

Spin-on Fuel Filter Frame Mounted, Unheated
High Efficiency Cooling System
Includes silicone radiator hoses and extended life coolant.
Donaldson Radial Seal/Dry Type Air Cleaner w/Frontal Air Intake

YES ___ NO ___ EXCEPTION ___

EMBER SEPARATOR ON AIR INTAKE

Designed to prevent embers in the atmosphere from entering the engine air intake and causing damage.

YES ___ NO ___ EXCEPTION ___

EXHAUST SYSTEM

Horizontal (Diesel Particulate Filter RH under frame)

YES ___ NO ___ EXCEPTION ___

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

TRANSMISSION & CLUTCH

Allison 3000 EVS-P Emergency Vehicle Service
Fire and Emergency Applications. Includes Rear Transmission Support,
TranSynd Automatic Transmission Fluid, and Water Oil Heat Exchange.
HD Driveline With Single Midship Bearing
Allison EVS 4th Gear Lockup `J`
(Allison Vocation Package 120) Fire Transmission
Allison 6-Speed Configuration - Close Ratio Gears

YES _____ NO _____ EXCEPTION _____

AIR EQUIPMENT

Bendix AD-IS Air Dryer with Heater
Includes easy-to-service spin-on desiccant cartridge.
Berg Pull Cord Drain Valve(s) - All Air Tanks
Nylon Chassis Hose
Polished Alum Air Tanks Outside Frame Rails
Natural Aluminum Air Tanks
Clear Outside Frame of All Air System Components

YES _____ NO _____ EXCEPTION _____

TIRES & WHEELS

FF: BR 16ply 12R22.5 R250F

RR: BR 14ply 11R22.5 M711

Alcoa 883640 Pilot 22.5x8.25 Aluminum Wheels
Pilot Mount

Accur 50408 Steel Inner/Alcoa 883640
Outer Aluminum Wheels - 22.5x8.25 Pilot Mount
Polished Wheels with Chrome Wheel Nut Covers

YES _____ NO _____ EXCEPTION _____

FUEL TANKS

26in Aluminum 50 Gallon Fuel Tank RH

Location RH U/C 50 Gallon

(1) Non-Slip Fuel Tank Step RH

Polished Aluminum Fuel Tank

Polished All Fuel/Hydraulic Tank Straps 1200

YES _____ NO _____ EXCEPTION _____

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2000 Gallon Pumper / Tanker

BATTERY BOX & BUMPER

Alum Battery Box w/Non-slip Step LH Under Cab
Includes diamond pattern block shaped cover.

YES _____ NO _____ EXCEPTION _____

BUMPER

Steel Styled Aero Bumper Chrome with Center Tow Hook

YES _____ NO _____ EXCEPTION _____

CAB & EQUIPMENT

Alum Cab 108in BBC Metton Hood w/Bright Crown
Severe Service Cab Package #1
Includes alum side skins, alum rear skin, alum windshield mask,
steel firewall, steel front floor sheet, steel isolator insert.

YES _____ NO _____ EXCEPTION _____

SEATING

UltraRide HighBack Vinyl Air Driver Seat
UltraRide HighBack Vinyl Passenger Seat Non-Air
Includes storage compartment under seat.
Arm Rests RH/LH Driver Seat
Arm Rest LH Only Passenger Seat
Black Seat Color
3-Point Safety Belt-Driver & Pass-Red
18in (4) Spoke Foam Steering Wheel-Soft Touch
Adjustable Steering Column - Tilt/Telescope

Vantage Interior Grey/Black
Includes vinyl padded headliner and back panels, doors with rubber
insert, (2) inside entry grab handles, contoured armrests, two inside sunvisors, two
coat hooks, rubber floor mats, cup holder with 12-volt power outlet, and 2-way domelight.

NFPA Grabhandles mounted RH/LH on Cab
NFPA compliant grabhandles featuring a larger diameter and slip resistant inserts.

Day Cab Rear Window
View Window in RH Door

YES _____ NO _____ EXCEPTION _____

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POWER WINDOWS

Power Lift Window - Both Doors w/Driver Control

Combo Fresh Air Heater/Air Conditioner with radiator mounted condenser.
Bi-Level Heater/Defroster Controls, 54,500 BTU/HR, and silicone heater hoses.

Outside Sunvisor Stainless Steel

Stainless Steel Mirrors 7x16 with Heat Element

Convex Mirror Over RH Door

(2) Convex 8-Inch SS Mirror
Center mounted under mirror bracket.

YES _____ NO _____ EXCEPTION _____

AIR HORNS

Air Horn Valve, Pull Cord
Two (2) Hadley air horns mounted on hood.

YES _____ NO _____ EXCEPTION _____

AUDIO SYSTEM

Includes AM/FM/WB frequencies, (2) cab mounted
speakers, and antenna.

Plug-In Auto Reset Circuit Breaker in place of fuses in junction box.

Peterbilt Electric Windshield Wipers with Intermittent Feature

Cigar Lighter and Ashtray

Oil Temp Gauge

Trans – Main Allison Transmission

Instrument Package B1732

Includes electric speedometer w/trip odometer, tachometer w/integral
hourmeter, voltmeter, dual air pressure, engine oil pressure, water
temperature, transmission temperature, and fuel level gauge.

YES _____ NO _____ EXCEPTION _____

STANDARD WARNING LIGHT PACKAGE

Includes;
High water temperature
Low oil pressure
Low air pressure warning lights w/buzzers
High beam and turn signal indicators
Parking brake warning light.
Inlet air heater and alternator charging system warning
lights without buzzers.

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Bright Bezel Gauges

(2) Additional Toggle Switches

Headlights Composite Fender Mounted w/Integral Park, Turn, and Side Marker.

Marker Lights (5) Rect LED (Light Emitting Diodes)

YES _____ NO _____ EXCEPTION _____

PAINT

Dupont Single Stage Non-Metallic (Solid Color Paint)

YES _____ NO _____ EXCEPTION _____

CAB: Burro Flats Lime Green

FRAME: BLACK

YES _____ NO _____ EXCEPTION _____

OEM CHASSIS MODIFICATIONS

TRANSMISSION LOCK-UP EVS-3000

An electronic lock-up relay system shall be installed between the engine and transmission and the fire pump. The lock-up shall place the transmission into the 1:1 gear automatically for pump operations. (As per NFPA specs)

YES _____ NO _____ EXCEPTION _____

FRONT & REAR MUD FLAPS

There shall be a pair of front and rear mud flaps installed at the rear of the fenders.

YES _____ NO _____ EXCEPTION _____

REAR TOW EYES

There shall be two (2) tow eyes, one (1) on each side. They shall be attached to the frame rails, located in

the rear center, under the tailboard.

YES _____ NO _____ EXCEPTION _____

EXHAUST SYSTEM

The exhaust system supplied shall be in compliance with the latest EPA Emission standard.

YES _____ NO _____ EXCEPTION _____

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2000 Gallon Pumper / Tanker

ROCKER SWITCH PANEL

There shall be a TST Tech 10 control head located in the cab. The panel shall be mounted in an aluminum Jotto Desk tower between the driver and officer.

YES _____ NO _____ EXCEPTION _____

MASTER BATTERY SWITCH

A master battery on/off switch with shall be provided in the cab, near the driver's door.

YES _____ NO _____ EXCEPTION _____

BACK-UP ALARM

One (1) Back up Alarm 97 DB shall be provided and installed at the rear of the unit. It shall be wired to activate when the transmission is placed in reverse.

YES _____ NO _____ EXCEPTION _____

INDEPENDENT FIRE PUMP MOUNTING

NFPA 1901 COMPLIANT PUMP

The fire pump and related plumbing on the specified apparatus shall be installed in accordance with applicable NFPA 1901 guidelines at the time the contract was placed.

YES _____ NO _____ EXCEPTION _____

SIDE PANEL MODULE

A pump operator's side panel pump module shall be provided. It shall be assembled and mounted independently from both the chassis and the body to properly allow sufficient flexing and prevent component fatigue.

The module shall be constructed using aluminum square tubing. The welded ends of the tubing shall be chamfered prior to welding and shall be ground smooth prior to finishing. **(NO EXCEPTIONS)**

YES _____ NO _____

SIDE PANELS

The pump compartment module shall have left and right side pump panels constructed of brushed stainless steel sheets. The side pump panels shall be removable. **Aluminum side panels shall not be considered. (NO EXCEPTIONS)**

YES _____ NO _____

GAUGE PANEL - STAINLESS STEEL

The pump operator's upper gauge panel shall be located on the left side of the pump module above the main control panel. It shall be constructed from brushed stainless steel. It shall be vertically hinged and shall have two latches. **(NO EXCEPTIONS)**

YES _____ NO _____

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2000 Gallon Pumper / Tanker

ACCESS PANEL - STAINLESS STEEL

There shall be a hinged upper access panel located above the main pump panel on the right side of the pump module. It shall be constructed from brushed stainless steel. It shall be vertically hinged and shall have two latches. **(NO EXCEPTIONS)**

YES _____ NO _____

COLOR CODED LABELS

A set of color coded and function described labels shall be provided on the apparatus for the pump operator's controls, gated inlets, discharge outlets, drains, intake gauge, and pressure gauges (as applicable). The labels shall be a high quality plastic material with a durable adhesive on the back.

YES _____ NO _____ EXCEPTION _____

PUMP PANEL LIGHT SHIELD - LEFT

One (1) polished, extruded aluminum light shield assembly shall be provided above the left side pump panel area. There shall be a minimum of two (2) weather resistant lights installed within the shield. A switch, located on the pump operator's panel shall be provided to activate the lights.

YES _____ NO _____ EXCEPTION _____

PUMP PANEL LIGHT SHIELD - RIGHT

One (1) polished, extruded aluminum light shield assembly shall be provided above the right side pump panel area. There shall be a minimum of two (2) weather resistant lights installed within the shield. A switch, located at the pump operator's panel shall be provided to activate the lights.

YES _____ NO _____ EXCEPTION _____

PUMP COMPARTMENT LIGHTS

Two (2) 5" round dome style lights shall be provided inside the pump compartment area. Each shall be switched on the light itself. The lights shall have a minimum 20 candlepower.

YES _____ NO _____ EXCEPTION _____

RUNNING BOARDS

Running boards shall be installed on each side of the pump compartment module. The running boards shall be constructed of 1/8" embossed fire apparatus bright aluminum treadplate. Each shall be a minimum of approximately 11" deep x the width of the side panel module. The running boards shall have a 1-1/4" upward bend on the inside edge to act as a kick plate.

YES _____ NO _____ EXCEPTION _____

The aluminum treadplate shall meet recommendations for slip resistant surfaces at the time of proposal. The running boards shall be attached to a frame mounted outrigger support structure. Each running board to have a 3" downward bend on the front and side faces with a 1" underside return for superior strength. **(NO EXCEPTIONS)**

YES _____ NO _____

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2000 Gallon Pumper / Tanker

DARLEY 1250 GPM PUMP

SINGLE STAGE FIRE PUMP

The pump shall be a **Darley LDM** single stage fire pump, capable of a rating 1250 gpm.

Power to drive the pump shall be provided by the same engine used to propel the apparatus. The pump shall be midship mounted and designed to operate through an integral transmission, including a means for power selectivity to the driving axle or to the pump.

The pump casing shall be a fine grain cast iron alloy, vertically split, with a minimum 30,000 psi tensile strength and bronze fitted.

The pump shall contain a cored heating jacket feature that, if selected, can be connected into the vehicle antifreeze system to protect the pump from freezing in cold climates.

The impeller shall be a high strength bronze alloy of mixed flow design, accurately balanced and splined to the pump shaft for precision fit and durability. The impeller shall feature a double suction inlet design with opposed volute cutwaters to minimize radial thrust.

The seal rings shall be renewable, double labyrinth, wrap around bronze type.

The pump shaft shall be precision ground stainless steel with long wearing titanium hard coating under the packing glands. The shaft shall be splined to receive broached impeller hubs, for greater resistance to wear, torsional vibration, and torque imposed by engine.

The bearings provided shall be heavy duty, deep groove, radial type ball bearings. They shall be oversized for extended life. The bearings shall be protected at all openings from road dirt and water splash with oil seals and water slingers.

The transmission case shall be heavy-duty cast iron alloy with adequate oil reserve capacity for low operating temperatures. A magnetic drain plug shall be provided. Transmission case shall include a dip stick for checking oil level.

The pump drive shaft shall be precision ground, heat-treated alloy steel, with a minimum 2-1/2" x 10" spline ends. Gears shall be helical design, and shall be precision cut for quiet operation and extended life. The gears shall be cut from high strength alloy steel, heat-treated and gas nitrided. The gear face shall be 3-1/2" minimum.

The gear shift shall be a heat treated alloy steel splined spur gear to engage either the pump drive gear or the truck drive shaft gear. The gear ratio of the pump shall be selected by the pump and apparatus manufacturer's Engineering Department.

Due to the advantages of the above gear and drive feature, chain drive and designs requiring additional lubrication are not acceptable.

A discharge manifold, as supplied as part of the pump by the pump manufacturer, shall include a discharge check valve assembly to allow priming of the pump from draft with discharges open and caps off. .

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2000 Gallon Pumper / Tanker

Due to the importance of the above discharge manifold and check valve assembly, intended to be included with the overall pump design, there shall be no exception allowed to this requirement.

Discharge outlets shall have extensions with companion flange openings to allow ease of service.

Two ports shall be provided on a pump panel for testing of vacuum and pressure readings. A hand speed counter outlet shall be supplied on a pump panel for measuring engine RPM ratio. A weather resistant Performance Data Plate shall be installed on a pump panel.

The pump priming system, heat exchanger system, discharge and suction valves, relief valves, pump shift, and master drain shall be as detailed elsewhere in these specifications.

Two (2) manuals covering the fire pump, pump transmission and selected options of the fire pump shall be provided with the apparatus.

PUMP CERTIFICATION

The fire pump shall be tested by W.S. Darley & Co. to meet the flow requirements of the pump installed on the apparatus. A written U.L. certification shall be provided with the completed vehicle.

YES _____ NO _____ EXCEPTION _____

U.L. TEST POINTS

Two (2) U.L. test plugs shall be mounted on the pump panel for testing of the vacuum and pressures.

YES _____ NO _____ EXCEPTION _____

6" LEFT SIDE INLET

One (1) 6" suction steamer inlet with male NH threads shall be provided, on the left side pump panel.

The inlet shall have a removable screen

The inlet shall have a polished chrome cap, engraved with the pump manufacturer's logo and name. The logo and name shall be painted with high quality urethane paint.

YES _____ NO _____ EXCEPTION _____

6" RIGHT SIDE INLET

One (1) 6" suction steamer inlet with male NH threads shall be provided, on the right side pump panel. The inlet shall have a removable screen.

The inlet shall have a polished chrome cap.

YES _____ NO _____ EXCEPTON _____

ELECTRIC PRIMER

The fire pump priming system shall consist of one (1) 12V positive displacement type rotary vane primer of a fluidless design.

A single, push-pull control shall be located on the pump operator's panel with a "Pull to Prime - Push To Close" label. The primer shall not require a lubrication tank. The priming pump shall be constructed of heat treated aluminum and hard coat anodized.

The pump priming system shall include a light to indicate when the pump priming system has been activated. The light shall be red in color and shall be labeled "WARNING - Primer Engaged".

YES _____ NO _____ EXCEPTION _____

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2000 Gallon Pumper / Tanker

PRESSURE GOVERNOR and MONITORING DISPLAY

A Fire Research Pump Boss model PBA100-A00 pressure governor and monitoring display kit shall be installed. The system shall include a control module, pressure sensor, and cables. The control module case shall be waterproof and have dimensions not to exceed 6 3/4" high by 4 5/8" wide by 1 3/4" deep. Inputs for monitored information shall be from a J1939 databus or independent sensors. Outputs for engine control shall be on the J1939 databus or engine specific wiring.

The following continuous displays shall be provided:

- ❖ CHECK ENGINE and STOP ENGINE warning LEDs
- ❖ Engine RPM; shown with four daylight bright LED digits more than 1/2" high
- ❖ Engine OIL PRESSURE; shown on an LED bar graph display in 10 psi increments
- ❖ Engine TEMPERATURE; shown on an LED bar graph display in 10 degree increments
- ❖ BATTERY VOLTAGE; shown on an LED bar graph display in 0.5 volt increments
- ❖ PSI / RPM setting; shown on a dot matrix message display
- ❖ PSI and RPM mode LEDs
- ❖ Throttle Ready Indicator

A dot-matrix message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator.

YES ___ NO ___ EXCEPTION ___

INDICATOR LIGHT

A green indicator light labeled "THROTTLE READY" shall be included with the pressure governor control located on the pump operator's panel. It shall indicate that the pump is engaged in the proper stationary pumping position, and that the parking brake is set.

YES ___ NO ___ EXCEPTION ___

NTAKE RELIEF VALVE

One (1) bronze, Elkhart intake relief valve shall be provided and mounted on the suction side of the pump, adjustable from 50-250 psi, on the valve itself. The valve shall be factory preset at approximately 125 psi. The system does not include an on/off control. (NO EXCEPTIONS)

YES _____ NO _____

MASTER DRAIN

One (1) rotary style master drain shall be installed on the lower portion of the side control panel. It shall be of brass construction and use a rotary screw mechanism against a rubber-sealing surface. Each port shall be isolated. An "open and closed" label with arrows indicating direction shall be installed.

YES _____ NO _____ EXCEPTION _____

1/4 TURN DRAINS

Each gated 1-1/2" or larger inlet and discharge shall have a quarter turn drain valve installed. The drain valves shall be located along the bottom on each pump panel. Inlets & discharges shall be plumbed to each drain at the lowest point. Each drain shall be plumbed with low-pressure hose to drain below bottom of the apparatus and be directed away from the pump operator. Each drain valve shall have a T-handle control with a recess in the "T" for a color-coded function label.

YES ___ NO ___ EXCEPTION ___

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2000 Gallon Pumper / Tanker

PUMP PANEL ID PLATE

An identification plate, prepared by the fire pump manufacturer, shall be installed on the pump operator control panel to identify the fire pump serial number, model number, and performance.

YES _____ NO _____ EXCEPTION _____

PLUMBING SYSTEM

The plumbing system shall consist of hard piping, or flexible high-pressure hose with stainless steel ends, as deemed necessary for the application. Upon completion, the entire system shall be fully pressure tested. The plumbing and valve arrangement shall be capable of delivering water to the pump at a minimum flow rate of 1250 GPM while pumping at 150-psi pressure.

Each gated intake shall be equipped with a 3/4-inch bleeder valve located in close proximity to the intake.

All intakes shall be provided with suitable closers (valves or caps) capable of withstanding 500 PSI.

When any 3" or larger intake or discharge is gated (except tank to pump valve), the valve shall have a mechanism to allow the valve to fully open or fully close no faster than 3 seconds.

Any 2-1/2" or larger discharge outlet, mounted 42" or higher from ground, which hose is to be connected, and which is not in a hose storage area, shall be supplied with a sweep elbow of at least 30 degrees.

All 2-1/2" and larger intakes and discharges shall be equipped with drains. All drain valves shall be operational without the operator having to get under the apparatus. All discharges and intakes shall terminate with chrome NST adapters, with chrome caps and chains, unless detailed otherwise in these specifications.

YES _____ NO _____ EXCEPTION _____

2-1/2" SUCTION(S) - LEFT SIDE

One (1) 2-1/2" brass suction valve(s) shall be installed on the left pump panel with the valve body mounted behind the pump panel. The control handle(s) shall be the quarter turn ball type, of the fixed pivot design, and located along side the suction valve.

The suction(s) shall terminate with a 2-1/2" female NST chrome inlet swivel, a chrome male plug, chain, and a brass inlet strainer.

The valve(s) shall be Darley brand with a polished stainless steel ball.

YES _____ NO _____ EXCEPTION _____

TANK TO PUMP LINE

One (1) tank to pump line shall be provided for connection between a water tank and the fire pump. The valve shall be a 4" butterfly type. The valve shall be controlled from the pump operator panel using an electric open/closed, two-position toggle switch with a green indicator light for the closed position, and an amber indicator light for open. The toggle switch shall activate an electric over air solenoid, which actuates an air cylinder changing the position of the valve. (No Exceptions)

YES _____ NO _____ EXCEPTION _____

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2000 Gallon Pumper / Tanker

2" TANK FILL

One (1) 2" pump to tank fill line shall be installed with a 2" inline bronze valve. The valve shall be manually controlled and properly labeled at the pump operator's panel.

YES _____ NO _____ EXCEPTION _____

2-1/2" LEFT SIDE DISCHARGE

Two (2) 2-1/2" discharge outlets with 2-1/2" pipe and valve and chrome NST threads shall be supplied at the left side panel. The valve shall be a quarter turn ball type, self-locking, fixed pivot design and shall be operated with a lever control from the operator's panel.

The valve shall be Darley bronze valve with a high polished stainless steel ball.

The valve shall have a chrome 30 degree elbow, with a chrome cap and a stainless steel retaining chain.

A 2-1/2" liquid filled gauge with a stainless steel bezel shall be provided for the discharge. The gauge shall be located on the pump operator's panel near the discharge control.

YES _____ NO _____ EXCEPTION _____

2-1/2" RIGHT SIDE DISCHARGE

Two (2) 2-1/2" discharge outlets with 2-1/2" pipe and valve and chrome NST threads shall be supplied at the right side panel. The valve shall be a quarter turn ball type, self-locking, fixed pivot design and shall be operated with a lever control from the operator's panel. (NO EXCEPTIONS)

The valve shall be Darley bronze valve with a high polished stainless steel ball.

The valve shall have a chrome 30-degree elbow, with a chrome cap and a stainless steel retaining chain.

A 2-1/2" liquid filled gauge with a stainless steel bezel shall be provided for the discharge. The gauge shall be located on the pump operator's panel near the discharge control.

YES _____ NO _____ EXCEPTION _____

1 3/4" CROSSLAYS

Two (2) 1-3/4" crosslays shall be installed in the pump module above the pump. The crosslays shall each have capacity for 200 ft. of 1-3/4" double jacket fire hose and both shall be foam capable.

The crosslays shall each be piped with 2" pipe and 2" self-locking valve and terminate with a 2" NPT x 1-1/2" NST chicksan type swivel up through the center of the crosslay flooring. The swivels shall allow hose out either side of the crosslay. (NO EXCEPTIONS)

The outside edges of each side opening shall be trimmed with polished stainless steel.

A manual valve control shall be furnished at the pump operator's panel for each.

Two (2) 2-1/2" liquid filled gauges, each with a stainless steel bezel shall be provided, one for each discharge. The gauges shall be located on the pump operator's panel near the respective discharge control.

YES _____ NO _____ EXCEPTION _____

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2000 Gallon Pumper / Tanker

2 1/2" CROSSLAY

One (1) 2-1/2" crosslay shall be installed in the pump module above the pump. The crosslay shall each have capacity for 200 ft. of 2-1/2" double jacket fire hose and shall be foam capable .

The crosslays shall each be piped with 2.5" pipe and 2.5" self-locking valve and terminate with a 2.5" NPT x 2.5" NST chicksan type swivel up through the center of the crosslay flooring. The swivels shall allow hose out either side of the crosslay. (NO EXCEPTIONS)

The outside edges of the side opening shall be trimmed with polished stainless steel.
A manual valve control shall be furnished at the pump operator's panel.

One (1) 2-1/2" liquid filled gauge, with a stainless steel bezel shall be provided. The gauge shall be located on the pump operator's panel near the respective discharge control.

YES _____ NO _____ EXCEPTION _____

PUMP INTAKE & DISCHARGE GAUGES

MASTER GAUGES

All Class 1 gauges shall be fully filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus 40 degrees F. The 4-1/2"(11.43cm) white-faced, Interlube filled pressure gauge shall indicate pressures from 0 to 400 P.S.I. for the discharge, and 30" to 400 P.S.I. for the suction. The cases shall be temperature compensated with an internal breathing diaphragm to permit fully filled cases and to allow a rigid lens with a distortion free viewing area. To prevent internal freezing and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem (no exceptions). A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage. Two (2) 4-1/2" (11.43cm) master pump gauges shall be supplied and mounted next to each other, adjacent to the Captain pressure governor and engine instrumentation. The intake gauge shall be located to the left of the discharge gauge.

YES _____ NO _____ EXCEPTION _____

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2000 Gallon Pumper / Tanker

DISCHARGE GAUGES

Individual Class 1 2-1/2(6.35 cm) line gauges for each 2" (5.08 cm) or larger discharge shall be provided and mounted adjacent to the discharge valve control handle. The gauges shall be white-faced, Interlube filled pressure gauges and handle pressures from 0 to 400 PSI. The pressure gauge shall be fully filled with pulse and vibration dampening Interlube® to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus 40 degrees F. The cases shall be temperature compensated with an internal breathing diaphragm to permit filled cases and to allow a rigid lens with a distortion free viewing area. To prevent internal freezing and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature material and be sealed from the water system using an insulating Sub Z diaphragm located in the stem. A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

YES _____ NO _____ EXCEPTION _____

WATER TANK LEVEL INDICATORS

TANK LEVEL GAUGE

Two (2) Tank level gauges shall be provided and installed in the following locations.

- One (1) The left rear of the apparatus body in close proximity to the electric dump valve switches.
- One (1) Pump operators control panel.

The Intelli-Tank level gauge shall indicate the liquid level on an easy to read display and show 9 levels of indication. Each tank level gauge system shall include:

One (1) pressure transducer shall be mounted on the outside of the tank. All sealed foam tanks require a second transducer.

One (1) set of weather resistant connectors, connecting to the digital display, to the pressure transducer and to the apparatus power.

TANK SLAVE UNIT

One (1) mini-slave tank level indicator shall be installed in the cab in an area clearly visible by the driver.

One (1) set of weather resistant connectors, connecting to the digital display, to the pressure transducer and to the apparatus power.

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2000 Gallon Pumper / Tanker

WATER TANK

WATER TANK

The water tank shall have a capacity of **2000 U.S. Gallons**. Certification of the tank capacity shall be recorded on the manufacturer's record of construction and shall be provided to the purchaser upon delivery of the apparatus.

The rear of the tank shall have a water level indicator. A sight tube or electronic indicator shall be acceptable based on the design approved by the tank manufacturer.

YES _____ NO _____ EXCEPTION _____

POLY TANK CONSTRUCTION

The Poly-Tank shall be constructed of 1/2" thick polypropylene sheet stock. **The rear wall of the tanker shall be a minimum of 1" thick.** This will provide a solid surface for mounting steps, lights, handrails, and other requested options. A tank with a rear wall thickness of less than 1" will be cause for immediate rejection. This material shall be a noncorrosive stress relieved thermoplastic, natural in color, and U.V. stabilized for maximum protection. (No Exceptions)

The tank shall be designed and manufactured with the ability to deliver 100% of the tanks rated capacity from each dump valve while on level ground. Tanks whose total discharge capacity cannot be achieved while on level ground through the side or rear dump valves independent of each other will not be considered.

YES _____ NO _____ EXCEPTION _____

TANK

The "Wetside" **2000 Gallon tank** shall be of a specific configuration and shall be 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 top of the booster tank shall be fitted with removable lifting eyes designed with a 3 to 1 safety factor to facilitate easy removability.

YES _____ NO _____ EXCEPTION _____

TANK FINISH

The tank shall be painted single color to match the apparatus chassis.

YES _____ NO _____ EXCEPTION _____

TANK BAFFLES

The transverse swash partitions shall be manufactured of 3/8" polypropylene (natural in color) and extend from approximately 4" off the floor to just under the cover. The longitudinal swash partitions shall be constructed of 3/8" polypropylene (natural in color) and extend to 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 shall interlock with one another and be welded to each other as well as to the walls of the tank.

YES _____ NO _____ EXCEPTION _____

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2000 Gallon Pumper / Tanker

TANK SUMP

There shall be one (1) sump in the bottom of the water tank. The sump shall be constructed of 1/2" polypropylene and shall be located in the left front quarter of the tank. On all tanks that require a front suction, a 4" schedule 40 polypropylene pipe shall be installed that will incorporate a dip tube from the front of the tank to the sump location. The sump shall be used as a combination clean-out and drain. All tanks shall have an anti-swirl plate located approximately 2" above the sump to pre-vent air from being entrained in the water while pumping.

YES ____ NO ____ EXCEPTION _____

TANK FILL CONNECTION

All tank fill couplings shall be backed with flow deflectors to break up the stream of water entering the tank, and shall be capable of withstanding sustained fill rates of up to 1,000 GPM.

YES ____ NO ____ EXCEPTION _____

TANK LID

The tank lid shall be constructed of 1/2" thick polypropylene to incorporate a multi three-piece locking design which allows for individual removal and inspection if necessary. The tank lid shall be recessed 3/8" from the top of the tank and shall be welded to both sides and longitudinal partitions for maximum integrity. Each one of the lids shall have hold downs consisting of 2" polypropylene dowels spaced a maximum of 30" apart. These dowels shall extend through the covers and shall assist in keeping the covers rigid under fast filling conditions. A minimum of two lifting dowels shall be drilled and tapped 1/2" x 13" to accommodate the lifting eyes.

YES ____ NO ____ EXCEPTION _____

TANK MOUNTING

The Poly-Tank shall rest on the body cross members in conjunction with such additional cross members, as required by the tank manufacturer.

The tank shall be isolated from the cross members through the use of hard rubber strips with, a minimum Rockwell Hardness of 60 durometer. Additionally, the tank shall be supported around the entire perimeter and captured both front and rear as well as side to side to prevent the tank from shifting during vehicle operation.

Although the tank shall be designed on a free-floating suspension principle, it shall be required that the tank have adequate hold down restraints to minimize movement during vehicle operation.

The tank shall be completely removable without disturbing or dismantling the apparatus structure.

YES ____ NO ____ EXCEPTION _____

WATER TANK FILL TOWER

The tank shall have a combination vent and manual fill tower, marked "Water Fill." The fill tower shall be constructed of 1/2" polypropylene and shall be a minimum dimension of 14" x 14" at the outer perimeter. The tower shall be located in the center of the tank. Fill towers located at the front or rear of the tank shall not be permitted due to the increased chance of spillage during operation which could cause a hazardous environment under certain conditions. The tower shall have a 1/4" thick removable polypropylene screen and a polypropylene hinged-type cover. (No Exceptions)

YES ____ NO ____

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2000 Gallon Pumper / Tanker

TANK OVERFLOW

The tank shall be equipped with a minimum of a 6" schedule 40 polypropylene overflow / air vent pipe. The pipe shall be installed in the fill tower and extend through the tank and dump to the rear of the rear axle.

YES _____ NO _____ EXCEPTION _____

REAR DUMP VALVES

There shall be Three (3) 10" *stainless* dump valves mounted on the rear portion of the tank as low as possible to achieve efficient dumping. (Electric Actuation with cab and rear controls)(No Exceptions)

Placement:

- One (1) Left Side at rear.
- One (1) Right Side at rear.
- One (1) Center rear.

YES _____ NO _____ EXCEPTION _____

REAR DIRECT TANK FILLS

There shall be two (2) external 2.5" direct tank fill ports furnished on the rear of the apparatus, (1) each side. The tank fills shall have 2.5" Akron Brass valves with built-in 30 degree elbow and manual swing type control handles located on each valve. A chrome plug and chain shall be supplied and installed on each valve.

YES _____ NO _____ EXCEPTION _____

AIR PACK COMPARTMENTS

Two (2) SCBA storage compartments shall be built into the driver's side of the tank wall. These compartments shall measure approximately 38" X 28" X 16".

YES _____ NO _____ EXCEPTION _____

BODY SUB-STRUCTURE

BODY SUB-STRUCTURE

Body and compartment sub structure shall be an all welded steel structure, and bolted to chassis frame. Ultimate strength shall be accomplished with 1-1/2" x 3" x 3/16" structural channel members extended across chassis frame.

In addition, there shall be 1-1/2" x 3" x 3/16" structural channel connecting the front and rear sub structure transverse members for additional strength and to form a full perimeter base for supporting the booster tank. Hangers and brackets shall be reinforced at all corners with gussets to prevent potential sag and warp over an extended period of fire service operations.

The sub-structure shall be coated with Linex, Rhino Liner, or a polyurethane type material. Substructures that are just primed and painted shall not be permitted. (No Exceptions)

The tank frame and compartment sub-assembly shall be supported by using two 4" X 8" structural steel longitudinal support members.

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

There shall be a minimum of two (2) 2" X 4" structural steel tubes affixed to the sub-assembly to for the compartment downriggers. Each compartment shall be supported 3" X 3" steel angle with corner gussets.

A minimum of twelve (12) 3/4" Grade 8 bolts shall attach the compartment sub-assembly to the vehicle chassis.

The tank cradle, compartment sub-assembly shall be continuously welded to form an unprecedented body support system.

Body sub-assemblies that are affixed to the apparatus utilizing "U" bolts shall not be permitted. (No Exceptions)

Tank support assemblies and/or cradles that are made of a solid sheet of steel shall not be considered due to the inability to fully shed water. This design will allow moisture accumulate which will lead to corrosion and failure due to the lack of air space and ventilation. (NO EXCEPTIONS)

YES _____ NO _____

BODY CONSTRUCTION

BODY CONSTRUCTION

The body compartments shall be fabricated entirely of aluminum extrusions and flat sheet material due to superior strength to weight ratio. Each compartment shall be welded on all exterior front seams with MIG spot welds on the rear and interior seams for maximum strength. All major structural mounting bolts shall be grade five type with locking style nuts. All mounting bolts shall be stainless steel 1/4" with nylon lock nuts for rust prevention and a lasting appearance while providing maximum strength. All fasteners shall be removed easily with standard tools. Wherever possible, all fasteners shall have locking style nuts or shall be threaded into panel and locked by an acorn nut, to eliminate loosening fasteners. (No Exceptions)

All screws that do not have locking nuts shall have threads coated with lock-tite. Acorn nuts shall be used throughout the body to prevent the possibility of snags and injuries, including fasteners which protrude into compartments and hose bed. The entire body shall be painted with the exception of the wheelwell area or other areas where treadbrite aluminum is utilized. Bodies that are fabricated entirely of treadbrite aluminum or other non-painted surfaces shall not be permitted due to increased upkeep and the increased chance of corrosion.

YES _____ NO _____ EXCEPTION _____

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2000 Gallon Pumper / Tanker

SWEEP-OUT CONSTRUCTION

All side body compartments shall have sweep out type floors. All compartments shall be made to the largest practical dimensions to provide maximum storage capacity for fire department equipment. Compartments that are fabricated without a "Sweep Out" design shall be immediately rejected. (No Exceptions)

All compartments shall be vented.

YES _____ NO _____ EXCEPTION _____

COMPARTMENT INTERIOR DIMENSIONS

The following compartments shall be furnished.

L1: Street Side, forward of axle

Size: 60" wide x 25" high x 23" deep

Type door: Double Pan

R1: Curb Side, forward of axle

Size: 60" wide x 25" high x 23" deep

Type door: Double Pan

L2: Street Side, rear of axle

Size: 23" wide x 20.75" high x 25" deep (interior dimensions)

Type door: Double Pan

R2: Curb Side, rear of axle

Size: 23" wide x 20.75" high x 25" deep (interior dimensions)

Type door: Double Pan

RR: Center, rear

Size: 24" wide x 24" high x 24" deep

Type door: Single Pan

YES _____ NO _____ EXCEPTION _____

DOUBLE PAN DOOR CONSTRUCTION:

Each vertically hinged exterior compartment shall have an aluminum fabricated double pan door installed. Each door shall be fabricated utilizing a combination of aluminum extrusions and aluminum sheet. The door shall be affixed to the apparatus utilizing a continuous stainless steel piano hinge with a 1/4" pin. The outer panel shall be painted to match the apparatus body and shall be permanently attached to the aluminum extrusions. The inner door shall be diamondplate aluminum and shall be easily removed to access the door latching mechanism.

Each door shall be equipped with a dual nadir pin latching mechanism with a "D" ring style door handle, which is designed, for easy operation by a gloved hand. A solid rod shall connect the operator to the latches. (No Exceptions)

Each door shall have a Cleveland style spring holding device. The device shall hold the door open when 50 % opening is achieved and shall assist the door to a closed position when the door is less than 50 %.

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2000 Gallon Pumper / Tanker

REAR FENDERS & FENDERWELLS

Rubber fenderettes shall be provided and installed around each wheel well.

YES _____ NO _____ EXCEPTION _____

RUNNING BOARDS

Running boards shall be fabricated of 3/16" FTQ aluminum diamondette, supported by the structural steel sub-frame. The running boards when apparatus is fully loaded shall have a maximum ground clearance of 24" when sitting on a level surface. They shall be flanged down to provide added strength and rigidity and to prevent cutting of hands while washing the apparatus. All stepping surfaces shall be in compliance with the latest version of all applicable NFPA standards.

YES _____ NO _____ EXCEPTION _____

REAR TAILBOARD

Rear step shall be constructed of 3/16" FTQ aluminum diamondette and supported by the structural steel sub-frame. The tailboard when apparatus is fully loaded shall have a maximum ground clearance of 24" when sitting on a level surface. The tailboard shall be flanged down to provide added strength and rigidity and to prevent cutting of hands while washing the apparatus. Rear step shall be spaced away from body a minimum of 1/4". The rear step shall be 12.5" deep and run the entire width of the apparatus. All stepping surfaces shall be in compliance with the latest version of all applicable NFPA standards.

YES _____ NO _____ EXCEPTION _____

ACCESS STEPS

The following areas shall have steps installed;

Five (5) chrome folding steps on the left rear of the vehicle. (The exact quantity may vary due to dump valve placement.)

YES _____ NO _____ EXCEPTION _____

HANDRAILS

All handrails used on apparatus shall be 1-1/4" diameter aluminum tube with ribbed rubber inserts supported at each end by a chrome plated stanchion. All rails shall be designed and mounted to reduce the possibility of hand slippage and to avoid snagging of hose, equipment, or clothing. Drain holes shall be provided in the bottom of all vertically mounted assist handles. Handrails shall be installed in the following locations:

Two (2) 24" vertical handrails shall be installed on the left and right side at the rear.

YES _____ NO _____ EXCEPTION _____

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

FOLDING TANK STORAGE

An “EZ Load” folding tank rack shall be provided over the right side compartments. The rack shall be fabricated on top of the right side compartments. It shall be large enough to transport a **2100** gallon folding tank.

FOLDING TANK

One (1) **2100** gallon capacity Fold-A-Tank brand folding tank shall be supplied. The tank shall feature a tubular aluminum frame with 22-ounce vinyl sides and 28-ounce vinyl floor.

YES _____ **NO** _____ **EXCEPTION** _____

ELECTRIC STANDARDS

ELECTRICAL STANDARDS

All electrical equipment shall meet SAE standards. All lighting and reflectors shall meet Federal Motor Vehicle Standards.

The apparatus wiring shall be color and function coded. (No Exceptions)

The optical warning system on the fire apparatus shall be capable of two separate signaling modes during emergency operations. One mode shall signal to drivers and pedestrians that the apparatus is responding to an emergency and is calling for the right of way. The other mode shall signal that the apparatus is stopped and is blocking the right of way. The parking brake switch shall determine, through the use of switching, which mode the emergency lighting is in.

The optical warning devices shall be constructed or arranged to avoid the projection of light either directly or through mirrors into any driving or crew compartments.

Illumination shall be provided for controls switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus and the equipment provided on it. Where external illumination is provided, it shall be a minimum of 5 foot-candles on the face of the device. Where external illumination is provided, it shall be a minimum of 4 foot lamberts.

Hydraulic lines, air system tubing, control cables, and electrical lines shall be clipped to the frame or body structure of the apparatus and shall be furnished with protective heat looms and/or grommets at each point where they pass through body panels or structural members.

Where any through-the-frame connector is provided, any such connector and wiring shall also be protected from shear or tear. Wiring shall be provided with properly rated low voltage over current automatic resetting protective devices. (The headlight circuit breaker shall be of the automatic reset frier type).

Such devices shall be readily accessible and protected against excessive heat, damage and water spray. Switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. Electromagnetic interference suppression shall be in accordance with SAE J551, performance levels and methods of measurement of electromagnetic radiation from vehicles and devices (30-1000 MHZ).

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

All relays and circuit breakers shall be "plug in" type for easy replacement. All components shall be protected against corrosion, heat, vibration and moisture. The relay panel shall be installed in the cab on the floor, between the seats and have an easily removable, aluminum cover. Relay panels mounted in compartments shall not be permitted due to the increased risk of damage from moisture. (No Exceptions)

YES _____ NO _____ EXCEPTION _____

CAB CENTER CONSOLE

A Jotto Desk console tower shall be installed between the driver and officer seats. The tower shall house the following components.

- Battery Indicator
- Low Voltage Indicator
- Door Ajar Indicator
- Tech 10 Switch Panel
- One (1) Blank panel for customer installed radio components

YES _____ NO _____ EXCEPTION _____

COMPONENT SWITCHING

Component switching shall be accomplished through a Transportation Safety Technology Tech 10 system. The system shall feature 10 Circuit breaker protected relay outputs for each of the 30 Amp automotive style replaceable relays. The relay control module shall be mounted in the cab to reduce the likelihood of moisture related damage. Relay panels mounted in body compartments will not be acceptable. (No Exceptions)

YES _____ NO _____ EXCEPTION _____

LOAD MANAGEMENT SYSTEM

A Load Manager shall be provided and installed on the vehicle. The Load Manager is designed to meet and exceed all the requirements of NFPA 1901. The system shall sequence a total of eight (8) loads.

Load shedding is accomplished in two zones; one (1) zone for lights that may be shed when on the road and the other for lights that may be shed at the scene. Selection of shedding modes is through the parking brake switch or the neutral safety switch.

A high voltage detector shall be provided to detect when the sensed voltage exceeds 15 volts. High voltage, low voltage and load shedding set points are individually field adjustable. Load shedding priority is determined by the wiring connections to the Load Manager.

YES _____ NO _____ EXCEPTION _____

LOW-VOLTAGE SYSTEM (LVS)

A Low Voltage Alarm system shall be provided and installed on the vehicle. It is designed to meet and exceed all the requirements of NFPA 1901.

YES _____ NO _____ EXCEPTION _____

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2000 Gallon Pumper / Tanker

DOT LIGHTING

Two (2) amber and two (2) red side body running lights shall be provided and mounted, one (1) amber and one (1) red on each side approximately midway between the front and rear axle. There shall be one (1) amber turn signal light with protective covers furnished and mounted in front of the axle since it is 32.5” long. There shall be five (5) lights located on the rear of the vehicle. Three (3) of the lights shall be in the tailboard area for use as identification lamps. Two (2) lights shall be provided on top stanchions, located as high and wide as possible, one (1) each side, for use as clearance lamps. All required reflectors shall be bolted onto body.

YES _____ NO _____ EXCEPTION _____

TAIL LIGHTS

The two (2) Vista tail/turn/brake lights shall be supplied. The two (2) back-up lights shall be clear. There shall be one (1) set of two mounted vertically each side on rear face of body.

YES _____ NO _____ EXCEPTION _____

COMPARTMENT LIGHTING

One (1) LED strip light shall be provided in each enclosed compartment, including any and all special compartments provided with a minimum of 4 cubic feet. (No Exceptions)

YES _____ NO _____ EXCEPTION _____

DOOR OPEN HAZARD LIGHT

There shall be a flashing red light located on the cab dash in clear view of the driver. This light shall be illuminated automatically whenever any passenger or equipment compartment door is open. The light shall be marked “Do Not Move Apparatus When Light Is On”.

YES _____ NO _____ EXCEPTION _____

LICENSE PLATE LIGHT

A license plate bracket with light shall be provided and installed on the left hand rear of the body. It shall be wired to come on with the headlights.

YES _____ NO _____ EXCEPTION _____

UNDERBODY/CAB GROUND LIGHTS

Four (4) Truck-Lite 4” clear ground illumination lights, with outward facing angle brackets shall be provided and installed. Two (2) shall be located under the cab doors, and two (2) shall be located to light the rear tailboard area. The lights shall activate with the parking brake.

YES _____ NO _____ EXCEPTION _____

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2000 Gallon Pumper / Tanker

EMERGENCY LIGHTING

NFPA-1901 Emergency lighting shall consist of:

CAB UPPER ZONE WARNING LIGHTS

One (1) 58" Code Three Model 2158NFPA2 all LED light bar with 12 modules shall be provided and installed on the cab roof.

CAB LOWER ZONE WARNING LIGHTS

Code Three LED 45BZR warning red light heads shall be installed as follows:

- Two (2) in chassis grille (one each side)
- One (1) left front fender
- One (1) right rear fender

APPARATUS BODY WARNING LIGHTS

Ten (10) Code Three LED 45BZR series **red** lights shall be provided and installed as follows:

- Four (4) rear facing Red
- Two Upper Zone
- Two Lower Zone
- Two (2) in the upper portion of the body. Left Front & Left Rear
- Two (2) in the upper portion of the body. Right Front & Right Rear
- Two (2) in the lower zone wheel well area.

YES _____ NO _____ EXCEPTION _____

TANKER UPPER REAR WARNING

Two (2) Code Three halogen rotators shall be provided and installed on the Upper Rear stanchions, (1) Red & (1) Amber.

HALOGEN SCENE LIGHTING

Six (6) Code Three 41Z26K series clear halogen scene lights shall be installed as follows:

- Two (2) rear facing upper zone. (One each side)
- Two (2) in the upper portion of the body. Left Front & Left Rear
- Two (2) in the upper portion of the body. Right Front & Right Rear

YES _____ NO _____ EXCEPTION _____

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

SIREN

One (1) Code Three 3940 Series 100 watt siren shall be furnished and installed in the warning light switch tower between the driver & officer. The hard-wired noise-canceling microphone shall be installed on the dash within easy reach of the driver or officer. It shall have a two (2) year standard warranty from the manufacturer.

YES _____ NO _____ EXCEPTION _____

SIREN SPEAKER

There shall be a 100-watt siren speaker furnished and installed in the front bumper. No surface mounted speakers shall be permitted. (No Exceptions)

YES _____ NO _____ EXCEPTION _____

REFLECTIVE STRIPING

One (1) 6" White Scotchlite stripe on each side, conforming to Federal Specification for Reflectivity, shall be provided down both sides of the cab and body. The reflective stripe shall cover at least at least 50 percent of the cab and body length on each side, at least 50 percent of the width of the rear, and at least 25 percent of the width of the front of the apparatus. Scotchlite Brand Only (No Exceptions)

At least of 50% of the rear vertical surfaces of the apparatus shall be equipped with a minimum 6 inch alternating red and yellow, fluorescent yellow or fluorescent yellow green chevron retroreflective striping sloping downward and away from the centerline of the vehicle at an angle of 45 degrees.

YES _____ NO _____ EXCEPTION _____

TOUCH-UP PAINT

A container of touch-up paint will be provided to match the cab color.

YES _____ NO _____ EXCEPTION _____

LADDER RACK

A set of CPI cast aluminum ladder brackets shall be provided and installed on the right side tank wall. The brackets shall hold (1) 24 foot extension ladder and (1) 14 foot single ladder.

YES _____ NO _____ EXCEPTION _____

LADDERS

The following ground ladders shall be furnished and installed on the right side of the apparatus.

- One (1) 24 Ft. Two Section extension ladder
- One (1) 14 Ft. Single Section Roof Ladder
- One (1) 10 Ft. Attic Ladder

YES _____ NO _____ EXCEPTION _____

PIKE POLE(S)

One (1) 6' pike pole with fiberglass handle will be provided and mounted as directed.

One (1) 10' pike pole with fiberglass handle will be provided and mounted as directed.

YES _____ NO _____ EXCEPTION _____

BURRO FLATS VFD

2000 Gallon Pumper / Tanker

SCBA BOTTLE STORAGE

There shall be Four (4) SCBA bottle storage compartments included on the apparatus. There shall be Two (2) on the left side in the wheelwell area and Two (2) on the right side in the wheelwell area. Each compartment shall have a single Cast Products Aluminum housing and door with a positive latching mechanism.

YES _____ NO _____ EXCEPTION _____

SUCTION HOSE & STORAGE

Two (2) Sections of 6" lightweight suction hose shall be provided with 6" threads and lug handles. The hose shall be mounted over the left side compartments and shall be restrained by three (3) 1.5" quick release nylon straps.

YES _____ NO _____ EXCEPTION _____

FOAM-PRO FOAM SYSTEM

A Foam-Pro Foam System shall be included. The system shall include a 20 gallon poly foam cell. The apparatus shall be equipped with an electronic, fully automatic, variable speed, direct injection, discharge side foam proportioning system. The system shall be capable of handling Class A foam concentrate. The foam proportioning operation shall be based on direct measurement of water flows, and remain consistent within the specified flows and pressures.

System must be capable of delivering accuracy to within 3% of calibrated settings over the advertised operation range when installed according to factory standards. The system shall be equipped with a control module suitable for installation on the pump panel. Incorporated within the motor driver shall be a microprocessor that receives input from the system flowmeter, while also monitoring foam concentrate pump output, comparing values to ensure that the operator preset proportional amount of foam concentrate is injected into the discharge side of the fire pump. A paddlewheel-type flowmeter shall be installed in the discharge system specified to be "foam capable."

The control module shall enable the pump operator to:

- Activate the foam proportioning system
- Select proportioning rates from 0.1% to 1.0%
- See a "low concentrate" warning light flash when the foam tank runs low and in two minutes, if foam concentrate is not added to the tank, shut the foam concentrate pump down

A 12 or 24-volt electric motor driven positive displacement plunger pump shall be provided. The pump capacity shall be 1.7 gpm (6.4 L/min) at 200 psi (13.8 BAR) with a maximum operating pressure up to 400 psi (27.6 BAR). The system will draw a maximum of 30 amps @ 12 VDC or 15 amps @ 24 VDC. The motor shall be controlled by the microprocessor (mounted to the base of the pump). It shall receive signals from the control module and power the 1/3 hp (.25 Kw) electric motor in a variable speed duty cycle to ensure that the correct proportion of concentrate is injected into the water stream. A full flow check valve shall be provided in the discharge piping to prevent foam contamination of fire pump and water tank. A 5 psi (.35 BAR) opening pressure check valve shall be provided in concentrate line.

Components of the complete proportioning system as described above shall include:

- Operator control module
- Paddlewheel flowmeter
- Pump and electric motor/motor driver
- Wiring harnesses
- Low level tank switch
- Foam tank

- Foam injection check valve
- Main waterway check valve

An installation and operation manual shall be provided for the unit, along with a one-year limited warranty by the manufacturer. The system must be installed and calibrated by a Certified FoamPro Dealer.

The system design shall have passed environmental testing which simulates heavy use on offroad mobile apparatus. Testing shall have been conducted in accordance to SAE standards.

YES _____ **NO** _____ **EXCEPTION** _____