



INVITATION TO BID

SOLICITATION NO: ITB 12-0003

FOR THE PROVISION OF

Fire Apparatus: Water Tender

BID DUE DATE AND TIME

June 8, 2012 at 2:00 PM

Tualatin Valley Fire & Rescue

11945 SW 70th Ave.

Tigard, Oregon 97223

Published Date: May 7, 2012



Tualatin Valley Fire & Rescue
11945 SW 70th Ave., Tigard, OR 97223
Phone: 503-259-1157, Fax: 503-649-5347

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The purpose of this Invitation to Bid (Solicitation) is to obtain competitive Bids from qualified Firms (Bidders) interested in the provision of **Fire Apparatus: Water Tender** on behalf of members of the cooperative purchasing group National Purchasing Partners (dba Public Safety GPO and FireRescue GPO).

The intention of this Solicitation is to establish a national price agreement with one or more manufacturers of Water Tenders. Significant sales potential exist because the resulting price agreement includes cooperative purchasing language that will permit use of the price agreement nationwide without the need for participating members of National Purchasing Partners to duplicate the formal solicitation process and expend staff resources.

Bidders shall submit their Bid pursuant to the instructions of this Solicitation to Tualatin Valley Fire & Rescue Purchasing Manager, or designee, at the Command and Business Operations Center, 11945 SW 70th Ave., Tigard, Oregon 97223, PRIOR to:

BID DUE DATE AND TIME

JUNE 8, 2012 AT 2:00 PM

Bids submitted prior to the Bid due date and time will be opened in public and read aloud at the address above and responsive Bids will be evaluated pursuant to this Solicitation.

BIDDER IS SOLELY RESPONSIBLE FOR ENSURING THAT TUALATIN VALLEY FIRE & RESCUE RECEIVES ITS BID. LATE BIDS WILL NOT BE ACCEPTED.

Questions and comments regarding this Solicitation must be **ONLY IN WRITING** and directed to the undersigned by email to Eric.Wicks@tvfr.com or by FAX 503-642-4814. This Solicitation may be viewed at the address above, contact Eric Wicks, Purchasing Manager at 503-259-1157.

There are two Tender specifications included within this Solicitation. This Solicitation includes the purchase of at least one (1) 3000 gallon Water Tender by Tualatin Valley Fire & Rescue. No procurement volume of any other agencies is included or guaranteed in this Solicitation.

Sincerely,

Eric Wicks, CPPB
Purchasing Manager/Contracts Administrator

SECTION I – INTRODUCTION

Bid No: ITB 12-0003

1. **DEFINITIONS.** This Solicitation is issued pursuant to the Oregon Revised Statutes (“ORS”) Chapter 279 and the Oregon Attorney General Model Rules (Oregon Administrative Rules “OAR”).
 - a. Cooperative Purchasing Group (“Group”) means member agencies of National Purchasing Partners (“NPP”) dba Fire Rescue Group Purchasing Organization (“FRGPO”) and Public Safety GPO.
 - b. “Member” or “Participating Agency” means a public or non-profit agency of the Group.
 - c. “Lead Agency” means Tualatin Valley Fire & Rescue; the Lead Agency is a Member of the Group.
 - d. “Bidder” means the authorized manufacturer representative of a fire apparatus manufacturer that submits a Bid in response to this Solicitation, or if submitted by a manufacturer, then Bidder means the manufacturer of fire apparatus.
 - e. “Manufacturer” means the manufacturing company that manufactures fire apparatus.
 - f. “Vendor” means the selected Bidder(s) resulting from this Solicitation.
 - g. “Water Tender” means the fire apparatus specified under this Solicitation.
 - h. Master Purchase Agreement (“MPA”) shall become the contract awarded to the selected Vendor(s), a sample is enclosed.
 - i. “Order” means an individual order for a Water Tender placed by a Member to a Vendor pursuant to the resulting MPA.
2. **GENERAL INTENT.** On behalf of its Members (see <https://www.myNPP.com>), in association with NPP, dba FRGPO and Public Safety GPO, on behalf of NPP’s Members across the nation, including fire departments, as authorized under the terms of the NPP/FRGPO Member Intergovernmental Cooperative Purchasing Agreement executed by all Lead Contracting and Participating Agencies, a cooperative procurement group, is soliciting proposals from qualified firms to enter into an MPA for Water Tenders.
3. **POTENTIAL MARKET.** The local government market potential for this solicitation includes potential exposure to over 19,000 cities, 3,000 counties, and 3,000 minor civil divisions throughout the United States.
4. **SOLICITATION REVIEW.** Bidders must carefully review this Solicitation and are responsible for knowing and understanding the terms and conditions. Unless defects, ambiguities, omissions, or errors are brought to Lead Agency attention in writing by Noon on May 31, 2012, protests based on such defects, ambiguities, omissions, or errors received after issuance of the Notice of Intent to Award (“NIA”) may not be favorably considered.
5. **PROJECT SCOPE.**
 - a. The purpose of this Solicitation is to establish an MPA between the selected Bidder(s) and the Lead Agency for the provision of Water Tenders for the benefit of the Group. There are two Tender specifications included within this Solicitation. The intent is to allow the broadest possible spectrum of buying opportunity for this large and diverse Group. Bidders may be local qualified companies with or without national presence provided the local company can provide the products and services requested.
 - b. Vendor(s) selected as a result of this Solicitation shall be issued an MPA and shall work directly with Members to establish an Order which shall be pursuant to the MPA and the terms and conditions of this Solicitation. No Orders, minimum purchase quantities or spending levels are provided or guaranteed are guaranteed under this Solicitation.
 - c. Vendor shall furnish and assume full responsibility for everything required for the orderly progress and proper execution and completion of any Order made by a Member, whether temporary or permanent, including but not limited to, materials, equipment, labor including any subcontractor, transportation, equipment and machinery, tools, and other facilities and incidentals.
 - d. Vendor shall not have any public or private interest and shall not acquire directly or indirectly any such interest which conflicts in any manner with the performance of its services.

SECTION I – INTRODUCTION
Bid No: ITB 12-0003

6. COOPERATIVE PURCHASING & ADMINISTRATION FEE.

a. General.

- i. Pursuant to OAR 137-046-0430, this Solicitation is a Permissive Cooperative Procurement. Authorized Agencies may utilize a Permissive Cooperative Contract pursuant to ORS 279A.215.
- ii. Members of the Group may utilize the resulting MPA as a permissive cooperative contract.
- iii. Members may not make material changes or alter the terms or conditions of the MPA including prices. However, large orders and/or discounts offered may affect pricing subject to any discounts offered by the Vendor. Trade-ins may be considered by the Vendor on a case-by-case basis and shall be negotiated individually.
 - A. Minor modifications to the MPA shall not be considered material changes, including but not limited to: lighting; accessories; delivery schedules or methods; and fees for not more than 15 percent of the current MPA contract price (subject to pricing increases allowed in 3.b.i).
- iv. Neither the Lead Agency nor NPP accept responsibility for payments by any Member; the pricing and purchase agreement between the Vendor and any Member, while pursuant to this Solicitation and MPA, is not a contractual obligation of the Lead Agency or NPP.
- v. Each Participating Agency shall execute a Participating Agency Endorsement and Authorization included in the Member Intergovernmental Cooperative Purchasing Agreement. While the terms of the MPA will govern the general pricing terms, each Participating Agency will request modification of the MPA in accordance with each Participating Agency's state and/or local purchasing laws, rules, regulations and procedures. Each Participating Agency may, at its discretion, request additional legal and procedural provisions not included herein that the successful Proposer must adhere to in order to conduct business with said Participating Agency.

b. NPP Fee.

- i. NPP provides group purchasing opportunities and purchasing administrative support for governmental entities and non-profit institutions within its membership. NPP membership includes participating public and non-profit entities across the United States. FRGPO provides exposure and marketing support for the Vendor's products throughout the NPP membership.
- ii. Vendors servicing NPP Members are required to pay a Contract Administration Fee of \$2,000 per Water Tender sold.
- iii. A portion of said fee is distributed to NPP and is used to offset the costs of member programs, NPP costs, and the marketing and administration of NPP. Members are required to execute the NPP Member Intergovernmental Cooperative Purchasing Agreement (enclosed). Membership in NPP is offered at no cost to all Members.
- iv. The actual utilization of any MPA will be at the sole discretion of the Members.

SECTION II – PUBLIC CONTRACTING RULES
Bid No: ITB 12-0003

1. SUBMITTING A BID.

- a. Submission. Bidder shall submit a Bid to Lead Agency in accordance with all prescribed requirements and instructions:
 - i. Submit a Bid on the forms provided.
 - ii. Provide the documents listed in paragraph 2 Response Format in Section III and any document(s) or literature requested by Lead Agency.
 - iii. Initial any correction or erasures to the Bid.
- b. Identification of Bid:
 - i. To ensure proper identification and handling, Bids shall be submitted in a sealed envelope or box appropriately marked with the Bidders name and address and the ITB number in large block numbers.
 - ii. Bids must be mailed or hand delivered to Eric Wicks, Purchasing Manager, at 11945 SW 70th Ave., Tigard, OR 97223. Lead Agency shall not consider electronic Bids or facsimile Bids.
- c. Receipt of Bid. EACH BIDDER IS RESPONSIBLE FOR ENSURING LEAD AGENCY RECEIVES ITS BID AT THE REQUIRED DELIVERY POINT PRIOR TO THE BID DUE DATE AND TIME. Lead Agency reserves the right to consider Bids that have been delayed or mishandled by Lead Agency.
- d. Confidentiality of Bid. Lead Agency may withhold from disclosure information in only accordance with ORS 279B.055(5)(c) and/or trade secrets or confidential information pursuant to ORS 192.501 or 192.502. A Bidder shall make such information perfectly obvious to Lead Agency in the Bid by indicating in bold capitalized letters “CONFIDENTIAL” prior to the information.

2. TIME FOR ACCEPTANCE.

- a. A Bidder’s submission in response to this Solicitation is an offer to enter into a MPA, the Bidder acknowledges Bidder has read, understands and agrees to be bound by the terms and conditions herein.
- b. The Bid is a firm offer, irrevocable, valid and binds the Bidder for not less than 120 Days.
- c. The Bidder must not make its Bid contingent upon Lead Agency acceptance of any terms or conditions (including Specifications) other than those contained in this Solicitation, except as allowed.
- d. Issuance of an MPA constitutes acceptance of the Bid and binds the selected Bidder to the MPA.

3. ADDENDA.

- a. Lead Agency may change the Solicitation document only by an addendum. Any addenda issued shall become an integral part of this Solicitation.
- b. A Bidder shall provide written acknowledgment of receipt of all issued addenda with its Bid on the provided Bidder Certification form. Other forms of acknowledgement, if evident on the face of the Bid, may be acceptable.
- c. Lead Agency shall notify all known interested Bidders of addenda by Email.
- d. IT IS THE BIDDER’S RESPONSIBILITY TO MAKE INQUIRY OF ISSUED ADDENDA.

4. MODIFICATION OR WITHDRAWAL OF BIDS. A Bidder may modify or withdraw their Bid pursuant to OAR 137-047-0440.

5. LATE BIDS, WITHDRAWALS, OR MODIFICATIONS. Lead Agency shall not consider late Bids, late withdrawals or late modifications except as permitted in MISTAKES below. Any Bid, withdrawal, or modification received after Bid due date and time is late. Lead Agency reserves the right to consider late Bids, late withdrawals or late modifications if Lead Agency finds that such bid, withdrawal or modification has been mishandled by Lead Agency.

6. RECEIPT, OPENING, AND RECORDING OF BIDS.

- a. Lead Agency shall hand-mark or stamp each Bid and any modification upon receipt with the date and time received.

SECTION II – PUBLIC CONTRACTING RULES

Bid No: ITB 12-0003

- b. Lead Agency official bid time clock is an ‘atomic-clock’ maintained by the Purchasing Manager which will be present before bids are due in the lobby of the Command and Business Operations Center at 11945 SW 70th Ave., Tigard, OR 97223.
 - c. Lead Agency shall not be responsible for the premature opening or failure to open a Bid that is not properly addressed and/or identified.
 - d. Lead Agency shall publicly open Bids received in a timely manner and in proper form, including any modifications made to the Bid, after the Bid due date and time.
7. **BID REJECTION.** Lead Agency may reject any Bid as set forth in OAR 137-047-0640.
8. **REJECTION OF ALL BIDS.** Lead Agency may reject all Bids pursuant to OAR 137-047-0650.
9. **CANCELLATION.** Lead Agency may cancel this solicitation pursuant to OAR 137-047-0660.
10. **NOTICE OF INTENT TO AWARD.** Award of this Solicitation shall be in accordance with Section IV. Lead Agency shall provide a written Notice of Intent to Award (“NIA”) to all Bidders at least seven (7) calendar days before the award of an MPA. The NIA will be sent by fax or email to all Bidders. Lead Agency Award must not be final until the latter of the following: The expiration of the contract award protest period provided in OAR 137-047-0740, or until Lead Agency provides Written response to all timely filed protests denying the protest(s) and affirming the Award.
11. **BIDDERS RIGHT TO PROTEST SOLICITATION AND AWARD.** Bidders shall fully comply with the rules and statutes of this paragraph in order for a protest to be accepted by Lead Agency.
 - a. Pursuant to OAR 137-047-0730, a Bidder may protest the procurement process or the Solicitation. Such protest shall be submitted prior to Noon on May 31, 2012.
 - b. Only pursuant to OAR 137-047-0740, may a Bidder protest the Lead Agency NIA. Such protest shall be submitted prior to Noon on the seventh day proceeding the date listed on the NIA. Bidders may not protest the award of an MPA.
12. **BID COSTS.** Lead Agency is not liable for any costs incurred by any Bidder in its Bid preparation.

SECTION III – BIDDER RESPONSE REQUIREMENTS

Bid No: ITB 12-0003

1. **PAST PERFORMANCE SURVEY.** The Lead Agency shall only award an MPA to a Responsible Bidder pursuant to OAR 137-047-0500. A Responsible Bidder is a Bidder that has performed well in the past. Past performance is a good predictor of future performance. To help make the determination of a Responsible Bidder, the Lead Agency, along with the evaluation of the information submitted under Submittals, will gather data on the past performance of the Bidder directly from past or existing clients of the Bidder.
 - a. The Bidder shall complete its portion of the Performance Survey, located in the Enclosures section, then shall send a Survey form to FIVE (5) of its own clients.
 - b. **THE BIDDER IS RESPONSIBLE FOR SENDING THE SURVEY TO ITS CLIENTS AND FOR ENSURING THAT THE CLIENTS RESPOND TO THE SURVEY PRIOR TO THE BID DUE DATE AND TIME. FAILURE TO DO SO WILL RESULT IN REJECTION OF THE BID.**
 - c. A minimum of THREE (3) responses must be received by Lead Agency PRIOR TO THE BID DUE DATE IN ORDER FOR THE BIDDER TO BE RESPONSIVE. If more surveys are received by Lead Agency only three will be chosen, at random, to be used in the evaluation of the Bidder Responsibility.

2. **RESPONSE FORMAT.** Bidders shall provide a typewritten response, in the following order, and shall use the worksheets/forms enclosed where noted; failure to do so may be cause to reject the Bid:
 - a. Bidder Certification Worksheet (see enclosures)
 - b. Bid Schedule (see enclosures). Pricing will reflect the specifications outlined in this solicitation. In addition to the Water Tender pricing, and in accordance with NFPA 1901 2009 edition, the Vendor shall provide a pricing discount for required loose equipment. The Vendor shall provide loose equipment only when specified in an Order by a Member. Specific loose equipment pricing is not included in this Solicitation, and such equipment pricing shall be directly negotiated by the ordering Member under the MPA.
 - c. The information required in Submittals (paragraph 3 below)
 - d. Specification Certification (see enclosures)
 - e. Technical Evaluation Worksheet (see enclosures)
 - f. Manufacturer Specification (paragraph 4 below)

3. **SUBMITTALS.**
 - a. **MANUFACTURER INFORMATION.** Manufacturer shall be established and reputable in the field of fire apparatus construction. Evaluation of the Manufacturer will include a review of the design and engineering capabilities of the manufactures' skill and experience level of personnel involved in the manufacturing process, and the suitability of the manufacturing facility.
 - i. **Provide a brief narrative about the Manufacturer represented, covering the information required above. Include background as it relates to Water Tender equipment and a description of the manufacturing facilities and indicate the number of years' experience in building Water Tenders, include information regarding the geographic coverage of sales and service for North America - limit to 2 pages.**
 - b. **BIDDER INFORMATION.** Bidder shall be established and reputable in the field of fire apparatus representation and shall maintain dedicated facilities for the repair and service of represented fire apparatus.
 - i. **Provide a brief narrative that provides an overview and history of the Bidder as an authorized manufacturer representative (authorized manufacturer/dealer network provider) - limit to 1 page.**
 - c. **SERVICE REQUIREMENTS.** Evaluation of the Bidder will include a review of the overall servicing capabilities, the suitability of the service facility, mobile service capabilities and experience level of personnel involved in the provision of services.
 - i. The Bidder shall be capable of providing prompt manufacturer certified warranty services. The services shall be provided within a reasonable distance from the ordering Member's location. The service center shall be staffed with EVT and ASE certified mechanics. The service center shall have

SECTION III – BIDDER RESPONSE REQUIREMENTS

Bid No: ITB 12-0003

current parts in stock and access to replacement parts direct from the manufacturer. The service center shall be capable of mounting intercom systems, additional shelving, hand tools and other equipment as needed by the Member. Bidder shall give details of the service center; information to be provided shall include, but is not limited to: physical location of the facility, ownership, number of service employees, technical certifications, description of the service facility, # of mobile service units, and parts inventory value.

A. Submit a narrative that provides these details - limit to 1 page.

- ii. Due to the cost, downtime, and inconvenience associated with sending vehicles to a service facility, mobile service is required to be available. The scope of mobile service must include both warranty and non-warranty repairs and service. The mobile service shall be provided by EVT and ASE certified mechanics that can travel to a location of the Member's choice to perform warranty and service work as required. Emergency services shall be available 24 hours per day 7 days per week. No exception to the requirement of mobile service shall be accepted.

A. Submit a brief narrative that provides details of the offered mobile service, including an estimate of the cost of travel expenses, mileage and/or other expenses associated with the mobile service work - limit to 1 page.

- iii. All service technicians must be factory trained full time, paid employees of the Bidder or Manufacturer. No sub-contracted services shall be accepted. No exceptions shall be accepted.

A. Submit a complete list of service technicians, include years with Bidder, qualifications and certifications.

- iv. Evaluation of this section will also be accomplished through the submitted Past Performance Surveys and other reference checking.

- d. MANUFACTURER QUALITY MANAGEMENT SYSTEM. The Group prefers a Manufacturer that operates a Quality Management System under the requirements of ISO 9001.

- i. **Provide a detailed description of the Manufacturer's quality management system, limit to 1 page.** Note: If using an ISO 9001 Quality Management System then the Bidder is only required to provide a certificate of compliance to comply with this section.

- e. SPECIFICATION CERTIFICATION. Compliance certification to meet or exceed specifications.

- i. The Water Tender Technical Specification Schedule enclosed contains space to indicate compliance with the specific requirements of the specification.

- ii. If the Water Tender offered meets specific requirements, the YES column shall be checked (ink is permissible). If the YES column is marked, it represents that the Water Tender will be furnished with the exact material, dimensions, or fabrication process as specified.

- iii. If the specification requirement cannot be furnished with the exact material, dimensions, or fabrication process, the NO column shall be checked. A NO mark indicates that the Bidder shall furnish a substitute material, dimension or process.

A. The NO column shall be marked whether the substitution exceeds or takes exception to the specified requirement.

B. Exceptions shall be allowed if they are equal to or superior to that specified and provided they are listed and fully explained on the Technical Evaluation Worksheet (see enclosures).

C. Bidder may offer other than as specified if the item offered is equal to that specified in general style, type, quality, workmanship, economy of operation, performance, characteristics, suitability for the purpose intended, and warranty.

D. The burden of proof is the responsibility of the Bidder.

(i) Bidder must clearly identify the brand name offered and shall provide descriptive literature that is sufficient in scope to allow Lead Agency to make an intelligent determination as to the suitability of the product offered for Lead Agency needs.

Failure to provide adequate descriptive literature may be cause to declare the Bid non-responsive.

E. Each and every exception must be documented and explained.

SECTION III – BIDDER RESPONSE REQUIREMENTS

Bid No: ITB 12-0003

- F. Lead Agency retains the sole right to determine if items offered, in fact, equal to that specified in this Solicitation. If there is any doubt as to the suitability of items offered the items will be rejected in favor of a Bid that provides the specified items.
- iv. NFPA compliance: Water Tender proposed by the Bidder shall meet the applicable requirements of the National Fire Protection Association (NFPA) as stated in current edition. Specifications that differ from NFPA specifications shall be indicated in the bid as "non-NFPA".
- f. **LIABILITY AND INSURANCE, ADDITIONAL INSURED. Submit evidence or a narrative or both of the Bidders compliance with the liability and insurance requirements detailed in the sample MPA.**
- g. **WARRANTY. Provide/submit:**
 - i. **A complete warranty statement for the Water Tender and all major components.**
 - ii. **A detailed information regarding how the manufacturer administrates warranty services in the field (dealer network, etc.).**
 - iii. **An outline of the procedure for processing a warranty claim.**
 - iv. **A brief account of a minimum of five (5) situations in the past ten years where warranty out of terms has been provided to a customer. Each account should include the total cost of the repair as well as detail of the cost borne by each stakeholder.**
- h. **AFTERMARKET SUPPORT WEBSITE. A Customer Service website shall provide authorized dealers access to comprehensive information pertaining to the maintenance and service of their customer's apparatus.**
 - i. This website shall also be accessible to the end user through the guest login. Limited access is available and vehicle specific parts information accessible by entering a specific VIN number.
 - ii. The website shall be capable of providing the following:
 - A. Ability to access truck detail information on the major components of the vehicle, warranty information, available vehicle photographs, vehicle drawings, sales options, applicable vehicle software downloads, etc.
 - B. Parts look-up capability, with the aid of digital photographs, part drawings, and assembly drawings.
 - C. Ability to electronically submit warranty claims directly to the factory for reimbursement.
 - D. Accessibility to multiple dealer reports that allow the dealership to maintain communication with the customer on the status of orders, claims, and phone contacts.
 - E. Access to all currently published Operation and Maintenance and Service publications.
 - F. Access to manufacturer Service Bulletins and Work Instructions containing information on current service topics and recommendations provided.
 - G. Access to upcoming training classes offered by the manufacturer.
 - H. Access to interactive electronic learning modules (Operators Guides) covering the operation of major vehicle components.
 - I. Access to customer service articles, corporate news, quarterly newsletters, and key contacts.
 - iii. **Provide details of the aftermarket support website.**
- 4. **MANUFACTURER SPECIFICATION AND DRAWING. Submit a manufacturers specification and drawing of the proposed Water Tender.** The specifications shall indicate size, type, model and make of all component parts and equipment. The drawing shall indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, compartment loading, etc. The drawing shall include electrical wiring diagrams.

SECTION IV – EVALUATION AND AWARD

Bid No: ITB 12-0003

1. **BID EVALUATION – RESPONSIVE AND RESPONSIBLE BIDDER - GENERAL.** The Lead Agency shall utilize the following evaluation criteria to ensure Bids received are Responsive and the Bidder is Responsible:
 - a. **Responsible Bidder.** Pursuant to OAR 137-047-0500, Lead Agency may only award an MPA to a Responsible Bidder. To aid Lead Agency in the responsibility determination, Lead Agency will utilize the Submittals, the Past Performance Surveys submitted by the Bidders' clients, and any other information Lead Agency discovers that is pertinent.
 - b. **Clarification of Bids.** After Bid Opening, Lead Agency may conduct discussions Bidders for the purpose of clarification to assure full understanding of the Bid. Any or all Bids, in Lead Agency sole discretion, needing clarification shall be accorded such an opportunity.
 - c. **Requirement Modification/Waiver.** Particular requirement(s) may be modified or waived to substantially meet the needs of Lead Agency. All Bids will be reevaluated in light of the modification or waived requirement.
 - d. **Negotiation.** Lead Agency may conduct discussions or negotiate with Bidders only in accordance with ORS 279B.060(6)(b) and OAR 137-047-0262.

2. **BID EVALUATION – PRICE, SPECIFICATIONS AND REQUIREMENTS.** The Lead Agency reserves the right to determine that the pricing, equipment and the configuration offered substantially meets the needs and best interests of Lead Agency. In addition to paragraph 1 above, Responsive and Responsible Bidders will be evaluated further, to help determine final Award, based on the following:
 - a. **TECHNICAL EVALUATION.** The equipment offered shall meet or exceed the requirements and conformance to existing equipment configuration and operating procedures (Water Tender Specification Schedule). At the expense of Lead Agency, Lead Agency may require a demonstration or test of the equipment to determine operating efficiency and appropriateness of equipment offered to perform as expected in the work environment intended. The proven durability and reliability of offered equipment is of utmost concern. Lead Agency will review submittals provided, and past performance surveys (Bidder's references), to determine the level of compliance of the technical evaluation.
 - b. **EQUIPMENT MANUFACTURING EXPERIENCE/SKILL.** Evaluation will include a review of the design and engineering capabilities of the manufactures' skill and experience level of personnel involved in the manufacturing process, and the suitability of the manufacturing facility based upon the narrative submitted. At the expense of Lead Agency, Lead Agency personnel may conduct a factory inspection as a part of the evaluation process. Lead Agency will review submittals, and past performance surveys (Bidder's references), provided to determine the level of compliance.
 - c. **SERVICE/SUPPORT.** The ability of the Vendor to provide quality service and support will be a major factor in the award of this bid. Convenience, experience, and reputation will be determining factors in defining quality service and support. Lead Agency will review submittals, and past performance surveys (Bidder's references), provided to determine the level of compliance.
 - d. **PRICE.** Total Water Tender pricing will be compared and weighted accordingly against the pricing from all other Responsive and Responsible Bidders. **The purpose is only to rank the price between bidders; the ranking of prices will only be informational and may not preclude the award of an MPA.** Lead Agency shall apply the reciprocal preference set forth in ORS 279A.120(2)(b) and OAR 137-046-0310 for Nonresident Bidders.
 - e. **LIABILITY AND INSURANCE.** (Compliance and provided in Bid). **Pass/Fail.**
 - f. **WARRANTY.** (Compliance and provided in Bid). **Pass/Fail.**

3. **BID AWARD**
 - a. Lead Agency reserves the right to cancel the Solicitation or an MPA Award at no penalty.
 - b. The Lead Agency reserves the right to award multiple MPAs to multiple Responsible and Responsive Bidders that meet or exceed the requirements of this Solicitation. Ordering Members will have the right to choose from any of the MPAs to place an Order, whichever is in the best interest of the Member, regardless of price (due to familiarity with the Vendor, standardization of its fleet, etc.).

SECTION V – STATEMENT OF WORK
Bid No: ITB 12-0003

1. SPECIFICATIONS

- a. The Water Tender Technical Specification contained in the Enclosures section reflects specified items that have been purchased in the past or are of known quality and are acceptable to the Lead Agency.
- b. The intent of the specification is to cover the furnishing and delivery of a complete new Water Tender and cover the requirements as to the type of construction and tests to which the Vendor shall conform, together with certain details as to finish, equipment and appliances with which the Water Tender shall conform. Minor details of construction and materials, which are not otherwise specified, are left to the discretion of the Vendor.
- c. In accordance with NFPA 1901, 2009 edition, the Bid shall specify whether a Member or the Vendor shall provide required loose equipment. The Vendor shall provide loose equipment only when specified in an Order by a Member. Specific loose equipment pricing is not included in this Solicitation, and such equipment pricing shall be directly negotiated by the Member with the Vendor.

- 2. QUALITY AND WORKMANSHIP.** The design of the Water Tender shall exemplify the latest approved automotive engineering practices. The workmanship shall be of the highest quality in its respective field. Construction shall be rugged and ample safety factors shall be provided to carry the loads specified and to meet both on and off road requirements and speed conditions as set forth under "Performance Tests and Requirements". Welding shall not be employed in the assembly of the Water Tender in a manner that shall prevent the ready removal of any component part for service or repair. All steel welding shall follow American Welding Society D1.1-2004 recommendations for structural steel welding. All aluminum welding shall follow American Welding Society and ANSI D1.2-2003 requirements for structural welding of aluminum. All sheet metal welding shall follow American Welding Society B2.1-2000 requirements for structural welding of sheet metal. Flux core arc welding to use alloy rods, type 7000, American Welding Society standards A5.20-E70T1. Employees classified as welders shall be tested and certified to meet current American Welding Society codes. The Manufacturer shall be required to have an American Welding Society certified welding inspector in plant during working hours to monitor weld quality.

- 3. QUALITY MANAGEMENT SYSTEM.** The Vendor shall operate a quality management system. These standards sponsored by the "International Organization of Standardization (ISO)" specify the quality systems that shall be established by the manufacturer for design, manufacture, installation and service.

4. GENERAL CONSTRUCTION.

- a. The Water Tender shall be designed with due consideration to distribution of load between the front and rear axles. Weight balance and distribution shall be in accordance with the requirements the Department of Transportation (of the State of the ordering Member) and the recommendations of the National Fire Protection Association.
- b. The Water Tender shall be capable of operating legally in the State of the ordering Member and/or the Vendor shall ensure that the Member is capable of obtaining a DOT variance as required by the State of the ordering Member.
- c. **NFPA STANDARDS:**
 - i. The Water Tender shall comply with the latest NFPA certification standards except for Specifications that differ from NFPA specifications (those indicated by the Bidder in Section III, paragraph 3).
 - ii. The Vendor shall have programs in place for training, proficiency testing and performance for any staff involved with certifications.

5. DRAWING APPROVAL.

- a. Vendor shall, prior to the preconstruction meeting, provide a "revised" approval drawing of the Water Tender to the Member showing any changes made to the original approval drawing.
- b. The drawing must be approved by the Member prior to any metal being sheared or cut for the Water Tender. Member, the Vendor and the Water Tender manufacturer shall each have a copy of the drawing. Drawing must show, but not limited to, such items as the chassis being utilized, lights, horns, sirens, all

SECTION V – STATEMENT OF WORK

Bid No: ITB 12-0003

compartment locations and dimensions, all inlets, all discharges, pump panel layout to scale, etc. Drawing is to be a visual interpretation of the Water Tender as it is to be supplied.

- c. **ELECTRICAL WIRING DIAGRAMS.** Two (2) electrical wiring diagrams, prepared for the body as it interfaces with the commercial chassis, shall be provided by the body builder. Two (2) electrical wiring diagrams for the chassis/cab shall be supplied by the chassis builder.
6. **WEB EX CONFERENCES.** Vendor shall provide a Web Ex pre-construction conference and pre-paint inspection conference. In an effort to reduce apparatus cost, reduce labor costs, and allow input from a larger group of users a video/teleconference between the Vendor, Member, and Manufacturer engineering staff at the factory shall be provided to determine the final design of the vehicle in lieu of the traditional pre-construction and pre-paint trips to the manufacturing plant.
 - a. The pre-construction conference shall take place after the initial engineering and drawing is complete and before the final sheet metal design is started.
 - b. The pre-paint conference shall take place at the point where the compartments are installed on the completed chassis with all compartments and doors in the final stages of metal work.
 - c. The conferences shall incorporate the use of a computer at each location to display engineering drawings and other necessary information to ensure proper communication between all parties. An audio and visual record of this conference shall be provided to document the event.
7. **WEEKLY CONSTRUCTION REPORTS/ PHOTOS.** The Vendor shall provide weekly construction reports and photos. Reports shall include a brief summary of work completed and the next steps in construction. Photos shall provide details of the Water Tender during the build cycle. All reports shall be sent by email to the ordering Member representative.
8. **INSPECTIONS.** The work under the resulting MPA shall be subject to inspection by the ordering Member to assure conformity to the plans, specifications and terms of an Order. The Vendor shall cooperate with the Member and shall provide assistance at all times for the inspection of the work. Notification of readiness to ship shall be given to the Member prior to releasing the Water Tender from the production line. The Vendor shall provide all costs such as travel, lodging and meals for the following inspections:
 - a. **Final Inspection.** A four day in-factory final inspection for up to four (4) Member representatives.
 - i. The final inspection shall be conducted when the completed Water Tender has been tested and is ready for delivery.
 - ii. If two major specification deficiencies are detected during the scheduled final inspection, the Vendor shall correct, at no expense to Member, the deficiencies. Major specification deficiencies include those which restrict or impede Water Tender drivability or operational capability as specified or deficiencies, which will not allow the inspection process to be completed.
 - iii. If the deficiencies cannot be corrected while Member representatives are at the factory, additional in-factory trip(s) that include all travel and expenses (air travel, meals, hotel, etc.) shall be provided by the Vendor for one (1) Member representative for final re-inspection(s).
 - b. All inspections trips shall meet the time-lines and shift schedules of ordering Member representatives.
9. **DELIVERY.**
 - a. Water Tender, to insure proper break in of all components while still under warranty, shall be delivered under its own power. Delivery by rail or truck freight shall not be acceptable unless agreed upon by the Member or as required by State or local agencies.
 - b. **INFORMATION REQUIRED.** The Vendor/Manufacturer shall supply at time of delivery, complete operation and maintenance manuals covering the completed Water Tender as delivered. A permanent plate shall be mounted in the driver's compartment which specifies the quantity and type of fluids required including engine oil, engine coolant, transmission and drive axle.
 - c. **SAFETY VIDEO.** Documentation provided at the time of delivery shall also include an apparatus safety video, in DVD format. This video shall address key safety considerations for personnel to follow when

SECTION V – STATEMENT OF WORK

Bid No: ITB 12-0003

they are driving, operating, and maintaining the Water Tender. Safety procedures for the following shall be included: vehicle pre-trip inspection, chassis operation, and maintenance.

- d. **TRAINING:** A factory trained technician shall coordinate and facilitate safety orientation of the Water Tender. This orientation will include one (4) four hour period to demonstrate to Member training personnel (train the trainer format) the location of safety information and controls for installed equipment on the delivered Water Tender. If multiple units are purchased safety orientation is required one time only, not per unit.
- e. **NFPA STANDARDS.**
 - i. Certification of slip resistance of all stepping, standing and walking surfaces shall be supplied with delivery of the Water Tender.
 - ii. A plate that is highly visible to the driver while seated shall be provided. This plate shall show the overall height, length, and gross vehicle weight rating.
- f. **DAMAGE.** Any damage to the Water Tender while in route to Member shall be repaired by the Vendor at no cost to the Member.

10. **TOTAL VEHICLE ASSESSMENT CERTIFICATION.** The Water Tender shall be third-party, independent, audit-certified to the current edition of NFPA 1901 standards. The certification shall include: all design, production, operational and performance testing of the Water Tender (no exception). The test results shall be provided to the Member at the time of delivery.

11. PERFORMANCE TESTS AND REQUIREMENTS

- a. **PUMP TEST.** If the Water Tender has a pump, the rated water pump shall be tested, approved, and certified by an ISO certified independent third party testing agency at the manufacturer's expense. The test results, along with the pump manufacturer's certification of hydrostatic test, the engine manufacturer's certified brake horsepower curve, and the manufacturer's record of pump construction details shall be forwarded to the Fire Department.
- b. **GENERATOR TEST.** If the Water Tender has a generator, the generator shall be tested, approved, and certified by Underwriters Laboratories at the Vendors expense. The test results shall be provided to the Member at the time of delivery.
- c. **BREATHING AIR TEST.** If the Water Tender has breathing air, Underwriters Laboratories shall draw an air sample from the air system and certify that the air quality meets the requirements of NFPA 1989, Standard on Breathing Air Quality for Fire and Emergency Services Respiratory Protection. The test results shall be provided to the Member at the time of delivery.
- d. Member shall conduct a road test with the Water Tender fully loaded at a continuous run of up to 20 miles under normal driving conditions, during which time the Water Tender shall show no loss of power or overheating. The transmission drive shaft or shafts, and rear axles shall run quietly and be free from abnormal vibration or noise throughout the operating range of the Water Tender. Water Tender shall adhere to the following parameters:
 - i. When fully equipped and loaded, shall have not less than 25% or more than 50% of the weight on the front axle, and not less than 50% nor more than 75% on the rear axle.
 - ii. Shall be capable of accelerating to 35 mph from a standing start within 25 seconds on a level concrete highway without exceeding the maximum governed rpm of the engine.
 - iii. The service brakes shall be capable of stopping a fully loaded vehicle in 35 feet at 20 mph on a level concrete highway. The air brake system shall conform to Federal Motor Vehicle Safety Standards (FMVSS) 121.
 - iv. When fully loaded, shall be capable of obtaining a speed of 55 mph on a level concrete highway with the engine not exceeding its governed rpm (full load).
 - v. **AMP DRAW REPORT.** The bidder shall provide, at the time of delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system. The Vendor shall provide the following:
 - A. Documentation of the electrical system performance tests.
 - B. A written load analysis, which shall include the following:

SECTION V – STATEMENT OF WORK

Bid No: ITB 12-0003

- (i) The nameplate rating of the alternator.
 - (ii) The alternator rating under the conditions specified per: Applicable NFPA 1901 or 1906 (Current Edition)
 - (iii) The minimum continuous load of each component that is specified per: Applicable NFPA 1901 or 1906 (Current Edition)
 - (iv) Additional loads that, when added to the minimum continuous load, determine the total connected load.
 - (v) Each individual intermittent load.
- C. All of the above listed items shall be provided by the bidder per the applicable NFPA 1901 or 1906 (Current Edition).

12. **FAILURE TO MEET TESTS.** In the event the Water Tender fails to meet the test requirements of these specifications on the first trial, second trials may be made at the option of the Vendor within 30 days of the date of the first trial. Such trials shall be final and conclusive and failure to comply with these requirements shall be cause for rejection. Failure to comply with changes to conform to any clause of the specifications, within 30 days after notice is given to the Vendor of such changes, shall also be cause for rejection of the Water Tender. Permission to keep or store the Water Tender in any building owned or occupied by the Member or its use by the Member during the above-specified period with the permission of the Vendor shall not constitute acceptance.

13. **PERFORMANCE BOND**

- a. The Vendor or Manufacturer shall provide within thirty (30) days after receiving an Order a performance bond which guarantees performance of all terms and conditions of the MPA and the Order and of the Basic One (1) Year Limited Warranty agreement. The performance bond shall specifically cover the performance of the Order according to the terms and conditions of the MPA, as well as payment of all related bills and encumbrances. The performance bond shall be issued by a surety company who is listed by the U.S. Treasury Department's list of approved sureties, as published in Circular 570, as of May 22, 2012, and January 1 of subsequent MPA periods. The performance bond shall be issued in an amount equal to 100% of the Order amount and shall be dated concurrent to, or subsequent to, the date of the Order.
- b. Notwithstanding any document or assertion to the contrary, any surety bond related to the sale of a vehicle shall apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle shall not apply to any other warranties that are included within this bid (OEM or otherwise) or to the warranties (if any) of any third party of any part, component, attachment or accessory that is incorporated into or attached to the vehicle. In the event of any contradiction or inconsistency between this provision and any other document or assertion, this provision shall prevail.

ENCLOSURES
Bid No: ITB 12-0003

Enclosures:

These forms and worksheets will be made available to Bidders in Microsoft Word – the file may be downloaded from here: <http://www.tvfr.com/resources/ITBs/Default.aspx>

Or request from eric.wicks@tvfr.com.

Bidder Certification

Bid Form

Past Performance Survey (to be sent to Bidders' references by the Bidder, and returned to
Lead Agency directly by each reference)

Specification – 3000 Gallon Water Tender

Specification – 2100 Gallon Water Tender

Technical Evaluation Worksheet

Sample Master Price Agreement

Sample National Purchase Partners Vendor Administration Agreement

Bidder Certification

Bid No: ITB 12-0003

Legal Name of Bidder:	
Mail Information: Address, City, State, Zip	

The undersigned certifies and agrees:

The prices in this Bid have been arrived at independently, without, for the purpose of restricting competition, any consultation, communication, or agreement with any other Bidder;

The Water Tenders offered herein complies fully with all terms and conditions of the Solicitation. If this Bid is accepted by Lead Agency; to furnish any or all items or services, upon which prices are bid, delivered at the designated point, within the time specified, and to the late delivery penalty requirement;

To extend the terms, conditions and prices of the resulting MPA to the purchasing Group;

To accept full responsibility for the completed design specifications of this items or services bid and that the items or services bid will meet the intended use objectives and requirements as identified by Lead Agency and current edition of NFPA 1901 guidelines as applicable;

That, if required, the Bidder is registered with the Oregon Secretary of State Office as required by ORS Chapters 58, 60, 62, 63, 65, 67, 70 and 648;

That the Bidder will not discriminate when obtaining any subcontractors in accordance with ORS 279A.110(4);

The Bidder acknowledges receipt of the following addenda. List by number and date appearing on the addendum:

Bidders are responsible to check with Lead Agency for any issued addenda:

Addendum No.	Date	Addendum No.	Date
_____	_____	_____	_____
_____	_____	_____	_____

Pursuant to ORS 279A.120, Bidder (check one) is ___/is not ___ an Oregon resident Bidder:

If not, indicate State of residency: _____;

The person signing this Bid is fully authorized to sign and fully binds the Firm to all provisions of this Solicitation:

Submitted this ___ day of _____, 20__.

Signature: _____

Name: _____

Title: _____

Phone: _____

Fax: _____

Email: _____

SS# or Fed Tax Id: _____

BID SCHEDULE
Bid No: ITB 12-0003

Bidder Name: _

For: Fire Apparatus: Water Tender

Bid an all inclusive lump sum amount based upon the terms and conditions of these specifications – for the Water Tenders, as specified, FOB DESTINATION to the ordering Member location in North America inclusive of all warranties, guarantees and requested option pricing.

Bidder may offer additional features not specified, but Member will not be obligated to order any additional features. Vendor shall bear the cost of any additional features delivered but not ordered.

3000 Gallon Water Tender Brand and Model Offered: _

Approach Angle: _ Departure Angle: _ Break Over Angle: _

Model Year: _

Price Each: \$ _

2100 Gallon Water Tender Brand and Model Offered: _

Approach Angle: _ Departure Angle: _ Break Over Angle: _

Model Year: _

Price Each: \$ _

List all discounts available for various pre-payments, reduced warranties, and deselected options, etc.: _

Indicate guaranteed delivery days after receipt of an Order: _

Indicate discounts available for loose equipment, may be a general lump sum, or separate discounts for separate groups or brands of equipment:

PAST PERFORMANCE SURVEY

Bid No.: ITB 12-0003

Dear Client:

This survey is for Tualatin Valley Fire & Rescue who is gathering data on the past performance of the Fire Apparatus Manufacturer and Dealer listed below.

Since past performance is a good predictor of future performance the results of this survey will be used to assist Tualatin Valley Fire & Rescue with the selection of a Fire Apparatus Manufacturer and Dealer that has performed at a high level in the past for you.

We appreciate you taking the time to complete this survey. **Client, please return this form, attached to an email addressed to Eric.Wicks@tvfr.com, or Fax to 503-649-5347.**

Client Info:

(Name of Firm)

(Name of person completing survey)

(E-Mail Address)

(Briefly describe what your firm purchased from the Dealer/Manufacturer, and provide the date you took delivery)

(Signature of Client representative)

(Date)

Fire Apparatus Dealer Info:

(Name of Dealer)

(Name of Project)

(Name of Manufacturer)

Please rate each of the criteria below on a scale of 1 to 10, with 10 representing that you were very satisfied and 1 representing that you were very unsatisfied. Please rate each of the criteria to the best of your knowledge.

NO	CRITERIA	SCORE
1	Ability to manage the project, overall	Score for the Servicing Dealer:
		Score for the Manufacturer:
2	Ability to maintain project schedule	Score for the Servicing Dealer:
		Score for the Manufacturer:
3	Quality of workmanship and services	Score for the Servicing Dealer:
		Score for the Manufacturer:
4	Professionalism and overall customer service throughout the project (Servicing Dealer)	
6	Communication and documentation (Servicing Dealer)	
8	Overall customer satisfaction.	Score for the Servicing Dealer:
		Score for the Manufacturer:

**Please return to TVF&R, Attn: Eric Wicks, Fax 503-649-5347
or attach to an email addressed to Eric.Wicks@tvfr.com.**

Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>CHASSIS</u></p> <p>The chassis shall be a Peterbilt, model 367 6x4, supplied with the following equipment:</p> <p><u>MAXIMUM OVERALL WEIGHT</u></p> <p>The maximum overall weight of the apparatus shall be such that no individual tire shall be loaded greater than the lesser of the manufacturer's maximum load rating or 635# per inch of tire width for the vehicle at its in-service weight.</p> <p><u>WHEELBASE</u></p> <p>The wheelbase of the vehicle shall be no greater than 218.50".</p> <p><u>GVW RATING</u></p> <p>The gross vehicle weight rating shall be a minimum of 58,000#.</p> <p><u>FRAME</u></p> <p>The frame rails shall be channel type, 10.75" x 3.50" x .375".</p> <p>The frame rails shall be formed from 110,000 psi yield, heat treated alloy steel.</p> <p><u>FRAME LINER</u></p> <p>A 3/4 length steel inner frame liner shall be provided.</p> <p><u>FRONT AXLE</u></p> <p>Front axle shall be an "I" beam type, made of forged steel. It shall be a Dana Spicer EFA-20F4, with a GAWR ground rating capacity of 18,000 pounds.</p> <p><u>FRONT SUSPENSION</u></p> <p>Taper leaf spring</p> <p>Capacity at ground 18,000 lb</p> <p>Shock Absorbers: Double Acting</p> <p>Shock absorbers shall be provided on the front axle.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>TIRES, FRONT</u></p> <p>Front tires shall be Michelin 385/65R22.50 radial tires with a tread pattern suitable for the steering axle position. The capacity of the tires shall meet or exceed the rating of the axle and/or suspension.</p> <p><u>WHEELS, FRONT</u></p> <p>Wheels for the front axle shall be 22.50" x 12.25" polished aluminum disc, ten (10)-hole pattern.</p> <p><u>REAR AXLES</u></p> <p>The tandem rear axles shall be Dana Spicer, model DSH44, with a ground rating capacity of 44,000 pounds.</p> <p>The Axles shall be equipped with a manual inter-axle differential lock out to aid in supporting added traction during off road conditions.</p> <p>The brakes shall be 16.50" x 7.00", S-Cam type.</p> <p><u>PARKING BRAKE</u></p> <p>Parking brakes shall be provided on all drive axles for optimal performance.</p> <p><u>REAR AXLE RATIO</u></p> <p>A rear axle ratio shall be furnished to allow the vehicle to reach a top speed of 60 MPH.</p> <p><u>SUSPENSION, REAR</u></p> <p>Rear suspension to be the Hendrickson RT463 steel spring system with an equalizing beam design that distributes the load equally between the two axles. Ground rating of the suspension to be 46,000 lb. Axles to have 52.00" spacing. Steel beams and bronze center bushings shall be provided.</p> <p><u>DUST SHIELDS</u></p> <p>The front and rear brakes shall be provided with dust shields.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>TIRES, REAR</u></p> <p>Rear tires shall be Michelin 12R22.50 radial tires with a traction tread pattern suitable for the drive axle position. The tires shall meet or exceed the weight rating of the axle and/or suspension.</p> <p><u>WHEELS, REAR</u></p> <p>The rear wheels shall be 22.50" x 9.00" polished aluminum disc type with a ten (10)-hole pattern.</p> <p><u>TIRE PRESSURE MANAGEMENT</u></p> <p>There shall be a VECSAFE LED tire alert pressure management system provided that shall monitor each tire's pressure. A chrome plated brass sensor shall be provided on the valve stem of each tire for a total of 10 tires.</p> <p>The sensor shall calibrate to the tire pressure when installed on the valve stem for pressures between 20 and 120 psi. The sensor shall activate an integral battery operated LED when the pressure of that tire drops eight (8) psi.</p> <p>Removing the cap from the sensor shall indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED shall immediately start blinking.</p> <p><u>HUB COVERS (front)</u></p> <p>Stainless steel hub covers shall be provided on the front axle. An oil level viewing window shall be provided.</p> <p><u>HUB COVERS (Rear)</u></p> <p>A pair of stainless steel, high hat, hub covers shall be provided on the rear axle hubs.</p> <p><u>COVERS, LUG NUT, CHROME</u></p> <p>Chrome lug nut covers shall be supplied on front and rear wheels.</p> <p><u>MUD FLAPS</u></p> <p>Mud flaps with the body builder's logo, shall be installed behind the rear wheels of the apparatus. Plain black mud flaps shall be provided behind the front wheels.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>WHEEL CHOCKS</u></p> <p>There shall be one (1) pair of folding Ziamatic SAC-44-E, aluminum alloy, Quick-Choc wheel blocks with easy-grip handle provided.</p> <p><u>WHEEL CHOCK BRACKETS</u></p> <p>There shall be one (1) pair of Ziamatic SQCH-44-H horizontal mounting wheel chock brackets provided for the Ziamatic SAC-44-E folding wheel chocks. The brackets shall be mounted under the driver's side forward body compartment.</p> <p><u>ANTI-LOCK BRAKE SYSTEM</u></p> <p>The vehicle shall be equipped with an anti-lock braking system. The ABS shall provide anti-lock braking control on both the front and rear wheels. It is to be a digitally controlled system that utilizes microprocessor technology to control the anti-lock braking system. Each wheel is to be monitored by the system. When any particular wheel begins to lockup, a signal is to be sent to the control unit. This control unit then shall reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system shall eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control.</p> <p><u>ELECTRONIC STABILITY PROGRAM</u></p> <p>A Bendix 6S/6M anti-lock brake system with air traction control and electronic stability program shall be provided.</p> <p><u>FRONT BRAKES</u></p> <p>The front brakes shall be S-Cam, 16.50" x 6.00". The front brakes shall be provided with Meritor™ automatic slack adjusters.</p> <p><u>AIR COMPRESSOR, BRAKE SYSTEM</u></p> <p>The air compressor shall be a Cummins 18.7 cubic feet per minute output.</p> <p><u>AIR DRYER</u></p> <p>A Bendix AD-IP air dryer with a heater shall be provided.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>AIR INLET, NAPA</u></p> <p>One (1) air inlet number 90624 and 90600 male and mating female coupling shall be provided. It shall allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet shall be located in the driver side lower step well of cab. A check valve shall be provided to prevent reverse flow of air. The inlet shall discharge into the "wet" tank of the brake system. The mating female coupling shall be provided with the loose equipment.</p> <p><u>ENGINE</u></p> <p>The chassis shall be powered by a Cummins electronically controlled engine as described below:</p> <ul style="list-style-type: none"> - Model: ISX-11.9 - Number of Cylinders: Six (6) - Displacement: 729 cubic inches (11.9L) - Maximum Horsepower: 425 at 1800 rpm - Torque: 1550 at 1200 rpm - Governed rpm: 2100 <p>Standard equipment on the engine shall include the following:</p> <ul style="list-style-type: none"> - Air Cleaner: Farr or Donaldson - Fuel Filter: Single, with check valve - Coolant Filter: Spin-on with shut off valves on the supply and return line (precharged with coolant inhibitor) - Governor: Limiting speed type - Injectors: Electronic unit type - Lube Oil Cooler - Lube Oil Filter: Combination Full Flow/Bypass - Starting Motor: 12-volt - Turbocharger - Air to Air After cooled - Cooled Exhaust Gas Recirculation. <p><u>HIGH IDLE</u></p> <p>A high idle switch shall be provided on the instrument panel inside the cab. Activating the switch</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>shall cause the vehicle to automatically maintain a preset engine rpm.</p> <p>The high idle switch shall be operational only when the parking brake is on and the truck transmission is in neutral. A green indicator light shall be provided adjacent to the switch. The light shall be labeled "OK To Engage High Idle."</p> <p><u>ENGINE BRAKE</u></p> <p>An engine compression brake is to be installed with the controls located on the instrument panel within easy reach of the driver.</p> <p>The engine brake is to be installed in such a manner that when the engine brake is slowing the vehicle the brake lights are activated.</p> <p><u>ENGINE HEATER</u></p> <p>A 1500 watt, 120 volt, Kim Hotstart, model SB115112-000 tank type engine heater shall be installed.</p> <p>The thermostat operating range shall be 120 to 140 degrees.</p> <p>The tank heater shall be located at the passenger side and back near the transmission.</p> <p>An AC power inlet shall be located at the driver's step riser. The heater shall be protected by a circuit breaker. The breaker shall be located in a circuit breaker panel.</p> <p><u>AIR INTAKE EMBER SEPARATOR</u></p> <p>The air inlet shall be equipped with a stainless steel mesh to separate water and burning embers from the air intake system such that particulate matter larger than 0.039" (1.0 mm) in diameter cannot reach the air filter element.</p> <p>This shall comply with NFPA 1901 and 1906 standards.</p> <p><u>EXHAUST SYSTEM</u></p> <p>The exhaust system shall consist of a single vertical stack with a diesel particulate filter (DPF) and an SCR device to meet current EPA standards. The DPF and SCR shall be mounted horizontally outside of the frame rails in the passenger side front step area. The stack shall be located at the right rear side of the cab. A perforated stainless steel heat shield shall cover the stack along the cab door frame opening.</p> <p>A vertical handrail shall be mounted to the heat shield.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>COOLANT LINES</u></p> <p>Silicone hoses shall be used for the radiator and cab heater hoses installed by the chassis manufacturer.</p> <p>Hose clamps shall be constant torque type to prevent coolant leakage. They shall react to temperature changes in the cooling system and expand or contract accordingly while maintaining a constant clamping pressure on the hose.</p> <p><u>FUEL TANK</u></p> <p>A 50-gallon aluminum fuel tank shall be provided and mounted at the left-hand cab step. The fuel tank and accessories such as the mounting straps and DEF tank cover shall be polished to a bright finish.</p> <p><u>DIESEL EXHAUST FLUID TANK</u></p> <p>A 9.0 gallon diesel exhaust fluid (DEF) tank shall be provided and mounted on the driver's side, below the cab.</p> <p>The tank shall include an integrated heater unit that utilizes engine coolant to thaw the DEF in the event of freezing.</p> <p><u>AUXILIARY FUEL COOLING SYSTEM</u></p> <p>A supplementary fuel cooling system shall be provided to allow the use of water from the discharge side of the pump for cooling the chassis engine fuel. The heat exchanger shall be a cylindrical type and shall be a separate unit. The cooler shall operate any time the pump is discharging water and shall be plumbed to the master drain valve.</p> <p><u>TRANSMISSION</u></p> <p>An Allison, model 4500 EVS, electronic torque converting automatic transmission shall be provided.</p> <p>Two (2) PTO openings shall be located on left side and top of converter housing (positions 8 o'clock and 1 o'clock).</p> <p>A transmission temperature gauge or warning light shall be installed on cab instrument panel.</p> <p><u>TRANSMISSION SHIFT CONTROL</u></p> <p>A push button shift module shall be mounted on the dash to right of driver. Shift position indicator shall be indirectly lit for after dark operation.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>The transmission shall be a five (5)-speed. The transmission ratios shall be 1st - 4.70 to 1.00, 2nd - 2.21 to 1.00, 3rd - 1.53 to 1.00, 4th - 1.00 to 1.00, 5th - 0.76 to 1.00, R - 5.55 to 1.00.</p> <p><u>TRANSMISSION COOLER</u></p> <p>An external transmission oil cooler shall be provided.</p> <p><u>DRIVELINE</u></p> <p>Drivelines shall be a heavy duty metal tube equipped with universal joints properly sized for the application. A splined slip joint shall be provided in each driveshaft.</p> <p><u>STEERING</u></p> <p>Steering shall consist of a hydraulically driven Model TRW TAS-85, steering system.</p> <p>The steering column shall tilt and telescope.</p> <p><u>BUMPER</u></p> <p>A one (1) piece, full-width aerodynamic steel bumper painted job color, shall be attached to the front of the chassis frame.</p> <p><u>TOW PINS</u></p> <p>Two (2) removable tow pins, designed with a capacity to pull the vehicle's full GVWR, shall be provided. Both tow pins shall be easily removable with the use of a receiver style design.</p> <p><u>BUMPER GAP</u></p> <p>The standard bumper furnished with the chassis shall be used.</p> <p><u>FOG LIGHTS</u></p> <p>Two (2) Perlux Model 06401 rectangular halogen fog lamps, with clear lenses, shall be provided one (1) on each side recessed into the front bumper.</p> <p>The fog lamp switch shall include an internal indicator. This switch shall be properly identified and installed on the switch panel within reach of the driver. The parking, tail, side marker and license plate lamps shall be activated by the headlamp switch prior to the activation of these fog</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>lights. The fog lights shall be able to switch on or off independently of the low beam headlights. The front fog lights shall be reset to an off position whenever the headlight switch or the vehicle ignition switch is set to the off position. The fog lights shall be deactivated when the high beam headlights are activated, when the headlight switch is turned off or when the ignition switch is turned off.</p> <p><u>CAB</u></p> <p>Type: Conventional (engine forward)</p> <p>Construction: Aluminum</p> <p>Accessories:</p> <ul style="list-style-type: none"> - Tinted Glass in all Windows - Fully Trimmed Vinyl Upholstery - Black Rubber Floor mats - Dual Sun visors - Cab Entrance Handrails - Electric Windshield Washer - Two (2)-speed Plus Intermittent, Electric Windshield Wipers - Dome Light with Door Courtesy Lights - Fresh Air Heater and Integral Defroster - Standard Air Conditioning System - Grey/Black Vinyl Upholstery <p><u>CAB GRILLE</u></p> <p>The cab grille shall be a highly polished perforated stainless steel design, and shall include chrome headlight bezels. The grille shall tilt with the hood.</p> <p><u>MIRRORS</u></p> <p>The cab shall be provided with aerodynamic mirrors which are dual motorized, heated, and include a heated integral convex mirror. The mirror housing shall be a bright finish.</p> <p>Controls for the mirrors shall be provided in the cab within easy reach for the driver.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>DOWNVIEW CONVEX MIRROR</u></p> <p>A down view convex mirror shall be installed above the right hand forward cab door.</p> <p><u>VISIBILITY WINDOW</u></p> <p>A visibility window, peeper, shall be provided in the passenger side cab door.</p> <p><u>CAB ACCESS STEPS</u></p> <p>The cab access steps on the driver side and passenger side front shall be provided by the chassis manufacturer. These steps shall be modified by the apparatus manufacturer if required to meet NFPA step requirements.</p> <p><u>STEP LIGHTS</u></p> <p>There shall be four (4) white LED step lights provided. There shall be one (1) light installed at each cab door, one (1) light per doorstep.</p> <p>In order to ensure exceptional illumination, each light shall provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light.</p> <p>The lights shall be activated when the adjacent door is opened.</p> <p><u>POWER PACKAGE</u></p> <p>Both the driver's and officer's doors shall have electrically powered windows and door locks.</p> <p><u>AIR CONDITIONING</u></p> <p>Air conditioning with integral heater and defroster shall be provided.</p> <p><u>ENGINE COMPARTMENT LIGHTS</u></p> <p>Two (2) engine compartment lights shall be installed under the engine hood, of which the switches are an integral part.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>DRIVER'S CONSOLE</u></p> <p>A custom designed map box console shall be installed between the seats and made of formed aluminum, with black powder coating. The forward section shall have space for one (1) 800 MHz radio, one (1) VHF radio, one (1) FireCom radio/intercom system and siren control head if adequate room is available. The rear section on the console shall be for map storage.</p> <p>Final console design will be determined at the Preconstruction conference.</p> <p><u>SEATING CAPACITY</u></p> <p>The seating capacity in the cab shall be two (2).</p> <p><u>SEATING</u></p> <p>Seating inside the cab shall consist of an air-suspension driver seat and an air-suspension officer seat.</p> <p><u>SEAT BELT WEB LENGTH</u></p> <p>The chassis seat belt web length as supplied by the commercial chassis manufacturer shall be compliant to NFPA 14.1.3.2 and 14.1.3.3.</p> <p><u>SEAT BELTS</u></p> <p>All seating positions in the cab shall have red seat belts.</p> <p><u>SEAT BELT MONITORING SYSTEM</u></p> <p>A seat belt monitoring system (SBMS) shall be provided. The SBMS shall be capable of monitoring up to ten (10) seat positions indicating the status of each seat position with a green or red LED indicator as follows:</p> <p>Driver Seat:</p> <p>Seat Occupied Buckled Green</p> <p>No Occupant Unbuckled Not Illuminated</p> <p>The driver seat shall not include an occupant sensor. The display indication for the driver seat shall illuminate red any time the parking brake is released and the driver seat belt is not buckled.</p> <p>All Other Seats:</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>Seat Occupied Buckled Green</p> <p>Seat Occupied Unbuckled Red</p> <p>No Occupant Buckled Red</p> <p>No Occupant Unbuckled Not Illuminated</p> <p>Alarm:</p> <p>The SBMS shall include an audible alarm that shall be activated when a red illumination condition exists and the parking brake is released, or a red illumination condition exists and the transmission is not in park.</p> <p><u>FLUID CAPACITY TAG</u></p> <p>A permanent plate shall be mounted in the driver compartment, showing the quantity and type of the following fluids:</p> <ul style="list-style-type: none"> • Engine oil. • Engine coolant. • Chassis transmission fluid. • Pump transmission lubricant. • Pump primer lubricant. • Drive axle(s) lubricant. • Air-conditioning lubrication oil. • Power steering fluid. • Cab tilt mechanism fluid (if applicable). • Transfer case fluid (if applicable). • Equipment fluid rack (if applicable). • Air compressor system lubricant (if applicable). • Generator system lubricant (if applicable). <p><u>HELMET STORAGE, PROVIDED BY FIRE DEPARTMENT</u></p> <p>NFPA 1901, 2009 edition, section 14.1.8.4.1 requires a location for helmet storage be provided.</p> <p>There is no helmet storage on the apparatus as manufactured. The fire department shall provide a location for storage of helmets.</p> <p><u>HAND HELD LIGHT</u></p> <p>There shall be two (2) 12v Streamlight, Model #44401, Fire Vulcan, lights mounted to be determined at the preconstruction conference.</p> <p>Each light housing shall be orange in color and be provided with a single filament halogen bulb and two "ultra bright blue taillight LEDs" The LEDs shall have a dual mode (blinking or steady).</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>CAB INSTRUMENTS</u></p> <ul style="list-style-type: none"> - Engine Temperature Gauge and Warning Buzzer - Engine Oil Pressure Gauge and Warning Buzzer - Speedometer with Odometer - Engine Tachometer - Engine Hourmeter - Fuel Level Gauge - Voltmeter: Low voltage red warning light and audible alarm - Air Brake Pressure Gauge - Air Restriction Indicator - Circuit Breakers: For overload protection of electric circuits - Ignition Switch: Keyless type <p><u>EMERGENCY SWITCH PANEL</u></p> <p>An emergency switch panel shall be provided in the cab. The switch panel shall be located overhead and on the cab instrument panel.</p> <p><u>"DO NOT MOVE APPARATUS" INDICATOR</u></p> <p>A flashing red indicator light, located in the driving compartment, shall be illuminated automatically per the current NFPA requirements. The light shall be labeled "Do Not Move Apparatus If Light Is On."</p> <p>The same circuit that activates the Do Not Move Apparatus indicator shall activate a pulsing alarm when the parking brake is released.</p> <p><u>OPEN DOOR INDICATOR LIGHT</u></p> <p>A red "open door" indicator light shall be provided inside the cab, in clear view of the driver, to warn of an open compartment door.</p> <p><u>WIPER CONTROL</u></p> <p>Wiper control shall include an intermittent feature and windshield washer controls.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>SPARE CIRCUIT</u></p> <p>There shall be one (1) pair of wires, including a positive and a negative, installed on the apparatus.</p> <p>The above wires shall have the following features:</p> <ul style="list-style-type: none"> The positive wire shall be connected directly to the battery power. The negative wire shall be connected to ground. Wires shall be protected to 20 amps at 12 volts DC. Power and ground shall terminate to the floor mounted lower center console. Termination shall be with heat shrinkable butt splicing. <p>Wires shall be sized to 125% of the protection.</p> <p>This circuit(s) shall be load managed when the parking brake is set.</p> <p><u>CUSTOMER SUPPLIED RADIO WIRING</u></p> <p>There shall be one (1) 12 volt combination wiring leads of which each shall include one (1) battery switched, one (1) ignition and one (1) negative for use with radio equipment.</p> <p>Each lead shall be 18" long and be provided in the floor mounted lower center console. The leads shall be clearly marked in a coil and terminate with butt splices.</p> <p>A breaker rated for 30 amps shall be provided for circuit protection of the battery switched lead with a minimum of 10 gauge wire.</p> <p>A breaker rated for 7.5 amps shall be provided for circuit protection of the ignition lead.</p> <p>The wires shall be colored coded as follows:</p> <ul style="list-style-type: none"> • red for battery switched • yellow for ignition • black for ground <p>These circuits shall be load managed when the parking brake is set.</p> <p><u>VEHICLE DATA RECORDER</u></p> <p>A vehicle data recorder (VDR) shall be provided. The VDR shall be capable of reading and storing vehicle information. The VDR shall be capable of operating in a voltage range from 8VDC to 16VDC. The VDR shall not interfere with, suspend, or delay any communications that may exist on the CAN data link during the power up, initialization, runtime, or power down sequence. The VDR shall continue operation upon termination of power or at voltages below 8VDC for a minimum of 10ms.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>The information stored on the VDR can be downloaded through a USB port mounted in a convenient location determined by cab model. A CD provided with the apparatus shall include the programming to download the information from the VDR. A USB cable can be used to connect the VDR to a laptop to retrieve required information.</p> <p>The vehicle data recorder shall be capable of recording the following data via hardwired and/or CAN inputs:</p> <p>Vehicle Speed - MPH</p> <p>Acceleration - MPH/sec</p> <p>Deceleration - MPH/sec</p> <p>Engine Speed - RPM</p> <p>Engine Throttle Position - % of Full Throttle</p> <p>ABS Event - On/Off</p> <p>Seat Occupied Status - Yes/No by Position (1-6 Seating Capacity)</p> <p>Seat Belt Buckled Status - Yes/No by Position (1-6 Seating Capacity)</p> <p>Master Optical Warning Device Switch - On/Off</p> <p>Time - 24 Hour Time</p> <p>Date - Year/Month/Day</p> <p><u>ELECTRICAL</u></p> <p>All 12-volt electrical equipment installed by the apparatus manufacturer shall conform to modern automotive practices as described in NFPA 1901, chapter 13. All wiring shall be high temperature crosslink type. Wiring shall be run in loom or conduit where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers shall be provided which conform to SAE Standards. Wiring shall be color, function and number coded. Function and number codes shall be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors shall be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids. Electrical wiring and equipment shall be installed utilizing the following guidelines:</p> <p>(1) All holes made in the roof shall be caulked with silicon. Rope caulk is not acceptable. Large fender washers, liberally caulked, shall be used when fastening equipment to the underside of the cab roof.</p> <p>(2) Any electrical component that is installed in an exposed area shall be mounted in a manner that shall not allow moisture to accumulate in it. Exposed area shall be defined as any location outside of the cab or body.</p> <p>(3) Electrical components designed to be removed for maintenance shall not be fastened with nuts</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>and bolts. Metal screws shall be used in mounting these devices. Also a coil of wire shall be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work.</p> <p>(4) Corrosion preventative compound shall be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections shall require this compound in the plug to prevent corrosion and for easy separation (of the plug).</p> <p>(5) All lights that have their sockets in a weather exposed area shall have corrosion preventative compound added to the socket terminal area.</p> <p>(6) All electrical terminals in exposed areas shall have silicon (1890) applied completely over the metal portion of the terminal. All emergency light switches shall be mounted on a separate panel installed in the cab. A master warning light switch and individual switches to be provided to allow pre-selection of emergency lights. The light switches shall be "rocker" type with an internal indicator light to show when switch is energized. All switches shall be properly identified and mounted in a removable panel for ease in servicing. Identification of the switches shall be done by either printing or etching on the switch panel. The switches and identification shall be illuminated.</p> <p>All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, shall be furnished. Rear identification lights shall be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads shall be protected from damage by installing a false bulkhead inside the rear compartments.</p> <p>An operational test shall be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.</p> <p>The results of the tests shall be recorded and provided to the purchaser at time of delivery.</p> <p><u>BATTERY SYSTEM</u></p> <p>A single starting battery system shall be provided consisting of four (4) 12 volt, 700 CCA, maintenance-free, group 31 batteries. The battery system shall have a total of 2800 CCA (cold cranking amps).</p> <p><u>BATTERY SYSTEM MODIFICATION</u></p> <p>Due to specific apparatus configuration requirements, the batteries shall be relocated to the hose bed by the apparatus manufacturer. An enclosure with an access panel shall protect the batteries.</p> <p><u>MASTER BATTERY SWITCH</u></p> <p>A master battery switch, to activate the battery system, shall be provided inside the cab within easy reach of the driver.</p> <p>The master battery disconnect switch shall be wired between the starter solenoid and the</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>remainder of the electrical loads on the apparatus.</p> <p>A green "battery on" indicator light, visible from the driver's position, shall be provided.</p> <p><u>BATTERY CHARGER</u></p> <p>A Newmar model PUC12-35, three stage waterproof battery charger, shall be provided. A bar graph indicating the state of charge shall be included.</p> <p>The charger output to the vehicle batteries shall be capable of supplying up to 35 amps for charging the batteries.</p> <p>The battery charger shall be wired to the 120-volt shoreline to activate automatically when the power is connected.</p> <p>Battery charger shall be located in the front left body compartment, mounted high in the upper front corner.</p> <p>The battery charger indicator shall be located on the driver's seat riser.</p> <p><u>SHORELINE</u></p> <p>There shall be one (1) shoreline receptacle provided to operate the 120-volt circuits on the truck without the use of the generator.</p> <p>The shoreline receptacle shall be provided with a NEMA 5-30P, 120 volt, 30 amp, straight blade plug and cover.</p> <p>The shoreline shall be connected to battery conditioner, engine heater and any 115 volt interior receptacles if requested.</p> <p>A mating connector body shall also be supplied with the loose equipment.</p> <p>The shoreline receptacle shall be located in the driver side lower step well of cab.</p> <p><u>ALTERNATOR</u></p> <p>The alternator shall be 12-volt 270 amp.</p> <p><u>ELECTRIC VARNISEAL COATING</u></p> <p>All weather exposed electrical connections and components shall be coated with Lawson Electrical Protective Coating (Varniseal) #89227.</p> <p>This coating shall be applied after the body is complete and then once again after the completion of the apparatus before customer inspection.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>ELECTRONIC LOAD MANAGEMENT</u></p> <p>A Kussmaul electronic load management (ELM) system shall be provided that monitors the vehicles 12-volt electrical system, and automatically reduces the electrical load in the event of a low voltage condition and by doing so, ensures the integrity of the electrical system.</p> <p>The ELM shall monitor the vehicle's voltage while at the scene (parking brake applied). It shall sequentially shut down individual electrical loads when the system voltage drops below a preset value. Five (5) separate electrical loads shall be controlled by the load manager. The ELM shall sequentially re-energize electrical loads as the system voltage recovers.</p> <p>The (ELM) also includes sequencer function for the five (5) managed loads and two (2) additional.</p> <p><u>EXTERIOR LIGHTING</u></p> <p>Exterior lighting shall meet or exceed Federal Department of Transportation, Federal Motor Vehicle Safety Standards and National Fire Protection Association requirements in effect at time of bid.</p> <p>Front headlights shall be halogen type and comply to all FMVSS requirements.</p> <p>Five (5) LED clearance and marker lights shall be installed across the leading edge of the cab.</p> <p><u>REAR ID/MARKER DOT LIGHTING</u></p> <p>The three (3) identification lights located at the rear shall be installed per the following:</p> <ul style="list-style-type: none"> Truck-Lite, model 33740R (3) lamp LED cluster recessed into the body. The center lights shall be as close to the vertical centerline and as high as practical. Centers spaced not less than six (6) inches or more than twelve (12) inches apart. Red in color. All at the same height. <p>Two (2) red Truck-Lite model 33050R, recessed LED lights, located as high and as close to the outside as possible facing the rear.</p> <p>Two (2) red Truck-Lite model 33050R, recessed LED lights, located at a minimum of 15" above the ground and as far to the rear as practical facing the side.</p> <p>Two (2) red reflex reflectors shall be located on the rear of the truck facing to the rear. One (1) each side, as far to the outside as practical, at a minimum of 15", but no more than 60", above the ground.</p> <p>Two (2) red reflex reflectors shall be located on the side of the truck facing to the side. One (1) each side, as far to the rear as practical, at a minimum of 15", but no more than 60", above the</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>ground.</p> <p>Per FMVSS 108 and CMVSS 108 requirements.</p> <p><u>REAR FMVSS LIGHTING</u></p> <p>The rear stop/tail and directional LED lighting shall consist of the following:</p> <p>Two (2) Whelen Model M6BTT red LED stop/tail lights.</p> <p>Two (2) Whelen Model M6T amber LED arrow turn lights.</p> <p>Each light shall be installed in a housing and include colored lenses.</p> <p>Four (4) red reflectors shall be provided.</p> <p>A Weldon, Model 23882-2600-00, license plate bracket shall be mounted on the driver's side above the warning lights. A Weldon, Model 9186-23882-30, incandescent step lamp shall illuminate the license plate.</p> <p><u>BACKUP LIGHTS</u></p> <p>There shall be two (2) Whelen, Model: M6BUW, LED backup lights provided in the tail light housing.</p> <p><u>LIGHTING BEZEL</u></p> <p>There shall be two (2) Whelen, Model M6FCV4P , four (4) place chromed ABS housings with Pierce logos provided for the rear M6 series stop/tail, directional, back up, scene lights or warning lights.</p> <p><u>BACK-UP ALARM</u></p> <p>A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse shall be provided. The device shall sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.</p> <p><u>LIGHT, INTERMEDIATE</u></p> <p>There shall be one (1) pair, of Truck-Lite, Model: 60115Y, amber, LED, turn signal, marker lights furnished, one (1) each side, horizontally in the rear fender panel.</p> <p>A stainless steel trim shall be included with this installation.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>PERIMETER SCENE LIGHTS, CAB</u></p> <p>There shall be two (2) lights Amdor Luma Bar H2O, Model AY-9500-020, 20.00" LED weatherproof strip lights provided for each cab door. The lights shall be activated automatically when the cab exit doors are opened and by the same means as the body perimeter lights.</p> <p><u>PERIMETER SCENE LIGHTS, BODY</u></p> <p>There shall be a total of four (4) Amdor Luma Bar, H2O Model AY-9500-020 20" LED weatherproof strip lights with brackets provided on the apparatus. The lights shall be mounted in the following locations: two (2) lights shall be provided under the rear step area, and one (1) light shall be provided each side under the pump panel running boards.</p> <p>The lights shall be activated by parking brake control and switch in cab.</p> <p>These lights shall meet NFPA requirements for perimeter scene lights.</p> <p><u>STEP LIGHTS</u></p> <p>Four (4) white LED, step lights shall be provided. One (1) step light shall be provided on each side, on the front compartment face and two (2) step lights at the rear to illuminate the tailboard.</p> <p>In order to ensure exceptional illumination, each light shall provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light.</p> <p>These step lights shall be actuated with the pump panel light switch.</p> <p>All other steps on the apparatus shall be illuminated per the current edition of NFPA 1901.</p> <p><u>REAR SCENE LIGHTS</u></p> <p>There shall be two (2) Whelen, Model M9ZC, LED scene lights installed at the rear of the water tank. The lights shall be mounted on spacer bezels as required.</p> <p>Each light shall be controlled by the following:</p> <ul style="list-style-type: none"> • a switch at the driver's side switch panel • a switch at the pump operator's panel • a switch at the rear of apparatus on the driver's side • no additional switch location 		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>SCENE LIGHTS</u></p> <p>There shall be two (2) Whelen, Model M9LZC LED scene lights with chrome flanges installed on the side of the apparatus, fore and aft on the upper corners of the passenger’s side body compartments.</p> <p>A control for the lights selected above shall be the following:</p> <ul style="list-style-type: none"> a switch at the driver's side switch panel a switch at the pump operator's panel no additional switch location no additional switch location <p>These lights may be load managed when the parking brake is set.</p> <p><u>SCENE LIGHTS</u></p> <p>There shall be two (2) Whelen, Model M9LZC LED scene lights with chrome flanges installed on the side of the apparatus, fore and aft on the upper corners of the driver’s side body compartments.</p> <p>A control for the lights selected above shall be the following:</p> <ul style="list-style-type: none"> a switch at the driver's side switch panel a switch at the pump operator's panel no additional switch location no additional switch location <p>These lights may be load managed when the parking brake is set.</p> <p><u>DECK LIGHTS</u></p> <p>Two (2)-6.00" Unity AG deck lights with swivel mount shall be provided at the rear of the hose bed, one (1) each side.</p> <p>One (1) light shall be furnished with a 160,000 candle power halogen spot bulb and the other shall be furnished with a 6,000 candle power halogen flood bulb.</p> <p><u>SWITCH, MASTER FOR DUMP VALVE</u></p> <p>One (1) master on/off switch shall be provided for the water tank dump valves. The switch shall be located at the cab instrument panel.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>WATER TANK</u></p> <p>The tank shall have a minimum capacity of 3000 U.S. gallons. The tank shall be of a specified configuration, and so designed to be completely independent of the compartment and/or fender modules. When placed on the chassis, the tank shall meet or exceed all federal DOT regulations regarding weight distribution, axle loading, and horizontal and vertical center of gravity locations. The tank manufacturer shall mark the tank with the manufacturers name, date of manufacture, and serial number. The tank manufacturer shall furnish notice that indicates proof of warranty.</p> <p>The tank shall be constructed using a virgin polypropylene sheet with a minimum thickness of .50". This material shall be a high impact copolymer (HIC), non-corrosive, stress relieved thermoplastic, UV stabilized for maximum protection.</p> <p>All joints and seams shall be nitrogen welded and tested for maximum strength and integrity. All swash partitions shall interlock and be welded to each other as well as to the walls of the tank.</p> <p>The tank shall incorporate a manual fill tower with a 6.00" combination vent/overflow pipe. The fill tower shall be constructed of polypropylene and shall be large enough to provide filling by means of a conventional 2.50" hose nozzle. The tower shall be located near the center of the tank to minimize water surge during vehicle operation. The tower shall have a removable polypropylene screen and a polypropylene hinged cover. The vent/overflow pipe shall run through the tank and exit through the floor of the tank behind the rear axle.</p> <p>The sides of the tank shall be covered with smooth sheets of aluminum that are painted to match the cab. These sheets shall provide a pleasing, finished, traditional "fire truck" appearance. These side sheets shall not comprise any part of the body or its structure. They shall be spaced approximately 1.00 inch from the sides of the tank, to allow any condensation that the tank may collect to drain away without making the exterior of the side sheet surface "wet", and holes may be drilled into the side sheets for the attachment of lights, signage or other surface mounted items, and shall not compromise the water tank integrity - hence the term "dry side tanker". These sheets shall protect the water tank, but also be removable in sections in case of accidental damage.</p> <p>To closely match the expansion / contraction of the water tank, these sheets shall always be aluminum, regardless of the material used to construct the body compartments.</p> <p>The tank, side sheets and hose bed (if provided) shall be removable as a unit and shall be a separate component from the body compartmentation.</p> <p><u>WATER TANK RESTRAINT</u></p> <p>A heavy-duty water tank restraint shall be provided to keep the water tank in position. This requirement is especially critical when the tank is empty and the apparatus is traveling over rough terrain.</p> <p><u>TOP OF TANK, ACCESS LADDER</u></p> <p>An access ladder constructed of aluminum tubing shall be provided for access to the hosebed</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>and/or tank dome. The ladder shall have a flexible mount attached to the tailboard. The exact location of the access ladder shall be determined at the preconstruction meeting.</p> <p><u>TANK OVERFLOW/VENT</u></p> <p>A 6.00" tube shall be installed through the shell of the tank. This tube shall function as an overflow to discharge water to the ground once the tank is filled to capacity. It shall also function as a vent to allow air to enter the tank when water is being dumped or pumped from the tank.</p> <p>The tube shall be positioned to drain at the bottom of the truck near the center, behind the rear axle.</p> <p><u>FOLD-A-TANK RACKS</u></p> <p>A Zico Quic-Lift #PTS rack or comparable shall be provided on the passenger's side for storage of a portable folding tank 3000 gallon. The electric lowering system shall be powered by two (2), 12-volt electric actuators.</p> <p>The electric controls shall be located in such a manner to allow the operator full view of the area in which the fold-a-tank shall be lowered.</p> <p>The electric actuator control shall have a master switch and also be interlocked to prevent operation should a compartment door, in the travel area of the rack, be in the open position.</p> <p>A aluminum cover, painted to match the body, shall be installed on the lowering device to protect and conceal the fold-a-tank when in the stored position. This cover shall be installed with a mounting kit to allow for flexing.</p> <p><u>RACK INTERLOCK AND NOT STOWED INDICATOR LIGHT</u></p> <p>An interlock shall be provided to prevent operation of the rack unless the apparatus parking brake has been activated.</p> <p>A steady red indicator light shall be located on the cab instrument panel and illuminated when the rack is not in the stowed position. The light shall be labeled "Rack". In addition, the "Do Not Move Apparatus" light located in the cab shall be activated when the rack is not in the stowed position.</p> <p><u>LIGHTS, FLASHING, RACK</u></p> <p>Flashing amber lights facing the front and rear shall be provided on the rack and activated whenever the rack is in the down position.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>REAR TANK FILL</u></p> <p>Two (2) 2.50" gated external tank fill inlets shall be installed on the rear of the apparatus, one (1) at the lower right hand corner of the water tank and one (1) at the lower left hand corner of the water tank and properly labeled.</p> <p>Piping, for the fill, shall be routed through the rear wall of the tank and include a flow deflector to break up the stream of water entering the water tank.</p> <p>A 2.50" ¼" turn full flow ball valve with 2.50" piping and a 2.50" (F)NST chrome swivel, chrome plated plugs and chains shall be located at the inlet.</p> <p>A 2.50" chrome plated 30 degree elbow and plug with VLH automatic pressure relieving thread technology shall be provided for the tank fills.</p> <p><u>REAR TANK DUMP VALVE</u></p> <p>One (1) 12.00" butterfly valve shall be installed at the rear of the water tank. The valve shall be actuated pneumatically from one (1) hooded safety toggle switch inside the cab and one (1) switch at the rear of the apparatus. Exact switch location shall be determined at the preconstruction meeting.</p> <p>A sliding, stainless steel, extension chute shall be provided on the rear dump valve. The extension chute shall extend beyond the tailboard when at full extension and retract automatically with a pneumatic cylinder when the valve is opened or closed.</p> <p>The rear dump valve and extension chute shall be designed in such a manner to prevent binding and leakage and provide a continuously smooth, trouble-free operation in dusty conditions. The valves shall not leak when the chassis air system is empty or the apparatus is not connected to shore power. The design of the extension shall prevent water from exiting behind the chute mechanism.</p> <p><u>DRIVER'S SIDE TANK DUMP VALVE</u></p> <p>One (1) 10.00" butterfly valve shall be installed at the driver's side of the apparatus, between the tandem axles. The valve shall be actuated pneumatically from one (1) hooded safety toggle switch inside the cab and one (1) switch at the rear of the apparatus. Exact switch location shall be determined at the preconstruction meeting.</p> <p>A sliding stainless steel extension chute shall be provided on the dump valve. The extension chute shall extend 14.00" and retract automatically with a pneumatic cylinder when the valve is opened or closed. No part of the valve assembly or chute shall extend past the side of the tank when in the closed position.</p> <p>Dump valves and extension chutes shall be designed in such a manner to prevent binding and leakage and provide a continuously smooth, trouble-free operation in dusty conditions. The valves shall not leak when the chassis air system is empty or the apparatus is not connected to</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>shore power. The design of the extension shall prevent water from exiting behind the chute mechanism.</p> <p><u>PASSENGER'S SIDE TANK DUMP VALVE</u></p> <p>One (1) 10.00" butterfly valve shall be installed at the passenger's side of the apparatus, between the tandem axles. The valve shall be actuated pneumatically from one (1) hooded safety toggle switch inside the cab and one (1) switch at the rear of the apparatus. Exact switch location shall be determined at the preconstruction meeting.</p> <p>A sliding stainless steel extension chute shall be provided on the dump valve. The extension chute shall extend 14.00" and retract automatically with a pneumatic cylinder when the valve is opened or closed. No part of the valve assembly or chute shall extend past the side of the tank when in the closed position.</p> <p>Dump valves and extension chutes shall be designed in such a manner to prevent binding and leakage and provide a continuously smooth, trouble-free operation in dusty conditions. The valves shall not leak when the chassis air system is empty or the apparatus is not connected to shore power. The design of the extension shall prevent water from exiting behind the chute mechanism.</p> <p><u>HOSE BED</u></p> <p>The hose bed shall be fabricated of .190"-5052 aluminum with a 38,000 psi tensile strength.</p> <p>Hose body width shall be minimum of 78.00" inside.</p> <p>Upper edges of side panels shall have a double break for rigidity, a split tube finish shall not be acceptable.</p> <p>Flooring of the hose bed shall be removable aluminum grating with the top surface corrugated to aid in hose aeration. The grating slats shall be a minimum of .50" x 4.50" with spacing between slats for hose ventilation.</p> <p>Two (2) adjustable hosebed dividers shall be furnished for separating hose.</p> <p>Each divider shall be constructed of a .125" brushed aluminum sheet fitted and fastened into a slotted, 1.50" diameter radiused extrusion along the top, bottom, and rear edge.</p> <p>Partition shall be fully adjustable by sliding in tracks, located at the front and rear of the hose bed.</p> <p>Divider shall be held in place by tightening bolts, at each end.</p> <p>Acorn nuts shall be installed on all bolts in the hose bed which have exposed threads.</p> <p><u>HOSEBED HOSE RESTRAINT</u></p> <p>A gray hosebed cover shall be furnished with awning rail (aluminum retainer) fasteners at the</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>front and velcro fasteners on the sides. There shall be 2.00" side release fasteners at the bottom of the rear body sheet below the hosebed. The flap at the rear shall be weighted with lead shot.</p> <p><u>RUNNING BOARDS</u></p> <p>Running boards shall be fabricated of .125" bright aluminum treadplate.</p> <p>Each running board shall be supported by a welded 2.00" square tubing and channel assembly, which shall be bolted to the pump compartment substructure.</p> <p>Running boards shall be 12.75" deep and spaced .50" away from the pump panel.</p> <p>A splashguard shall be provided above the running board treadplate.</p> <p><u>TAILBOARD</u></p> <p>The tailboard shall be constructed of .125" bright aluminum treadplate supported by a structural steel assembly.</p> <p>The rear tailboard shall be 16.00" deep.</p> <p>The exterior side shall be flanged down and in. The flanges shall not be notched.</p> <p><u>REAR WALL (Bulkhead)</u></p> <p>The rear wall shall be smooth aluminum over the rear of the water tank to allow for chevron stripes. The lower portion of the rear bulkhead below the tank shall be equipped with an overlay constructed of polished aluminum diamond plate. The sides of the overlay shall be bent at 90-degrees to close the top and sides of the overlay.</p> <p><u>TOW EYES</u></p> <p>Two (2) rear painted tow eyes shall be located at the rear of the apparatus and shall be mounted directly to the chassis frame rails. The inner and outer edges of the tow eyes shall have a radius.</p> <p><u>COMPARTMENTATION</u></p> <p>Body and compartments shall be fabricated of .125", 5052-H32 aluminum.</p> <p>Side compartments shall be an integral assembly with the rear fenders.</p> <p>Circular fender liners shall be provided for prevention of rust pockets and ease of maintenance.</p> <p>Compartment flooring shall be of the sweep out design with the floor higher than the compartment door lip.</p> <p>The compartment door opening shall be framed by flanging the edges in 1.75" and bending out</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>again .75" to form an angle.</p> <p>Drip protection shall be provided above the doors by means of bright aluminum extrusion, formed bright aluminum treadplate or polished stainless steel.</p> <p>Front facing compartment walls shall be covered with bright aluminum treadplate.</p> <p>All screws and bolts which protrude into a compartment shall have acorn nuts on the ends to prevent injury.</p> <p><u>UNDERBODY SUPPORT SYSTEM</u></p> <p>Due to the severe loading requirements of this pumper a method of body and compartment support suitable for the intended load shall be provided.</p> <p>The backbone of the support system shall be the chassis frame rails which is the strongest component of the chassis and is designed for sustaining maximum loads.</p> <p>The support system shall include .375" thick steel vertical angle supports bolted to the chassis frame rails with .625" diameter bolts.</p> <p>Attached to the bottom of the steel vertical angles shall be horizontal angles, with gussets welded to the vertical members, which extend to the outside edge of the body.</p> <p>The body substructure shall result in a 500 lb equipment support rating per lower compartment.</p> <p>A design with body compartments hanging on the chassis in an unsupported fashion shall not be acceptable.</p> <p><u>AGGRESSIVE WALKING SURFACE</u></p> <p>All exterior surfaces designated as stepping, standing, and walking areas shall comply with the required average slip resistance of the current NFPA standards.</p> <p><u>LOUVERS</u></p> <p>Louvers shall be stamped into compartment walls to provide the proper airflow inside the body compartments and to prevent water from dripping into the compartment. Where these louvers are provided, they shall be formed into the metal and not added to the compartment as a separate plate.</p> <p><u>TESTING OF BODY DESIGN</u></p> <p>Body structural analysis shall be fully tested. Proven engineering and test techniques such as finite element analysis, stress coating and strain gauging have been performed with special attention given to fatigue, life and structural integrity of the cab, body and substructure.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>Body shall be tested while loaded to its greatest in-service weight.</p> <p>The criteria used during the testing procedure shall include:</p> <ul style="list-style-type: none"> - Raising opposite corners of the vehicle tires 9.00" to simulate the twisting a truck may experience when driving over a curb. - Making a 90 degree turn, while driving at 20 mph to simulate aggressive driving conditions. - Driving the vehicle at 35 mph on a washboard road. - Driving the vehicle at 55 mph on a smooth road. - Accelerating the vehicle fully, until reaching the approximate speed of 45 mph on rough pavement. <p>Evidence of actual testing techniques shall be made available upon request.</p> <p><u>COMPARTMENTATION, DRIVER'S SIDE</u></p> <p>A vertically hinged, double door compartment ahead of the rear wheels shall be provided. The interior dimensions of this compartment shall be 50.50" wide x 40.63" high x 25.88" deep in the lower 26.00" of the compartment and 12.00" deep in the remaining upper portion. The depth of the compartment shall be calculated with the compartment door closed. The compartment interior shall be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment shall be 46.00" wide x 36.00" high.</p> <p>Positive door holders shall be furnished with this compartment.</p> <p>A vertically hinged, single door compartment behind the rear wheels shall be provided. The interior dimensions of this compartment shall be 16.50" wide x 29.63" high x 25.88" deep in the lower 26.00" of the compartment and 12.00" deep in the remaining upper portion. The depth of the compartment shall be calculated with the compartment door closed. The compartment interior shall be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment shall be 15.00" wide x 25.00" high.</p> <p>A positive door holder shall be furnished with this compartment.</p> <p>Provisions shall be provided in the panel to allow for a 10" dump between the tandems.</p> <p><u>HARD SUCTION HOSE COMPARTMENT</u></p> <p>A hard suction hose storage compartment shall be provided as an integral part of the driver's side body compartments. The hose storage compartment shall be fabricated of the same material as the body compartment and shall be fully enclosed. Access to the hose shall be through a vertically hinged smooth aluminum door at the rear.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>COMPARTMENTATION, PASSENGER'S SIDE</u></p> <p>A vertically hinged, double door compartment ahead of the rear wheels shall be provided. The interior dimensions of this compartment shall be 50.50" wide x 40.63" high x 25.88" deep in the lower 26.00" of the compartment and 12.00" deep in the remaining upper portion. The depth of the compartment shall be calculated with the compartment door closed. The compartment interior shall be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment shall be 46.00" wide x 36.00" high.</p> <p>Positive door holders shall be furnished with this compartment.</p> <p>A vertically hinged, single door compartment behind the rear wheels shall be provided. The interior dimensions of this compartment shall be 16.50" wide x 29.63" high x 25.88" deep in the lower 26.00" of the compartment and 12.00" deep in the remaining upper portion. The depth of the compartment shall be calculated with the compartment door closed. The compartment interior shall be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment shall be 15.00" wide x 25.00" high.</p> <p>Provisions shall be provided to allow a 10.00" dump between tandems.</p> <p><u>HARD SUCTION HOSE COMPARTMENT</u></p> <p>A hard suction hose storage compartment shall be provided as an integral part of the passenger's side body compartments. The hose storage compartment shall be fabricated of the same material as the body compartment and shall be fully enclosed. Access to the hose shall be through a vertically hinged smooth aluminum door at the rear.</p> <p><u>DOORS, SIDE COMPARTMENT</u></p> <p>All hinged compartment doors shall be lap style with double panel construction and shall be a minimum of 1.50" thick. The flat outer panel shall be .125" smooth aluminum. To provide additional door strength, a "C" section reinforcement shall be installed between the outer and interior panels.</p> <p>Doors shall be provided with a closed cell rubber gasket around the surface that laps onto the body. A second heavy-duty automotive rubber molding with a hollow core shall be installed on the door framing that seals onto the interior panel, to ensure a weather resisting compartment.</p> <p>All compartment doors shall have polished stainless steel continuous hinge with a pin diameter of .1875", that is bolted or screwed on with stainless steel fasteners. A strip of dielectric isolation tape shall be provided between the hinge and door jamb.</p> <p>All door lock mechanisms shall be fully enclosed within the door panels to prevent fouling of the lock in the event equipment inside shifts into the lock area.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>Doors shall be latched with recessed, polished stainless steel "D" ring handles and Eberhard 106 locks.</p> <p>To prevent corrosion caused by dissimilar metals, compartment door handles shall not be attached to outer door panel with screws. A rubber gasket shall be provided between the "D" ring handle and the door.</p> <p><u>REAR COMPARTMENT</u></p> <p>A tool compartment shall be provided at the rear of the apparatus. The compartment shall be sized to fit between the frame rails and made as large as possible.</p> <p>A drop-down door constructed of bright aluminum treadplate shall be provided.</p> <p><u>COMPARTMENT LIGHTING</u></p> <p>There shall be four (4) compartments with LED compartment light strips. The strips shall be centered vertically along each side of the door framing. The compartments with these strip lights shall be located in all side body compartments.</p> <p>Any remaining compartments shall include 6.00" diameter Truck-Lite, Model: 79384 light in each enclosed compartment. Each light shall have a number 1076 one filament, two wire bulb.</p> <p>Opening the compartment door shall automatically turn the compartment lighting on.</p> <p><u>CARGO AREA COMPARTMENT</u></p> <p>An aluminum treadplate transverse compartment shall be provided above the pump. A vertically hinged, single pan, aluminum treadplate door shall be provided above the pump panel on each side. The doors shall have a "D-ring" style latch and a gas shock to hold them in the open position. The height of this compartment shall be from the top of the pump house structure to near the top of the body side sheets.</p> <p>The compartment shall have (2) lights that are interlocked to a switch actuated when either one of the access doors are open. The compartment shall also be reinforced for walking on by a firefighter.</p> <p><u>MOUNTING TRACKS</u></p> <p>There shall be four (4) sets of tracks for mounting shelves in all body compartments. These tracks shall be installed vertically to support the adjustable shelves, and shall be full height of the compartment. The tracks shall be unpainted with a natural finish.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>PULL-OUT TRAY</u></p> <p>There shall be one (1) slide-out tray with 2.00" sides and a capacity of 500 pounds provided. Capacity rating shall be in the extended position.</p> <p>Slides shall be General Device ball bearing type for ease of operation and years of dependable service.</p> <p>Automatic locks shall be provided for both the "in" and "out" positions. The trip mechanism for it shall be located at the front of the tray for ease of use with a gloved hand.</p> <p>Each tray shall be designed to be as wide and as deep as the compartment space shall allow.</p> <p>Tray location shall be in a compartment to be determined at the preconstruction conference.</p> <p>Heavy-duty steel angle iron assembly shall support the body under the compartment floor. It shall be attached to the chassis frame for load transfer and to reduce stress on body.</p> <p><u>MATTING, COMPARTMENT FLOOR</u></p> <p>Turtle Tile compartment matting shall be provided in five (5) compartments on the compartment floor. The locations are, all body compartment floors including the rear tool compartment.</p> <p>The Turtle Tile shall be black and the leading edge of the matting shall include the beveled edge.</p> <p><u>PLYWOOD LINING</u></p> <p>Plywood shall be installed on the back wall of two (2) compartments. The locations are the driver's and passenger's side forward compartments.</p> <p>The plywood shall be high quality .75" marine grade without any patches. Stainless steel retainers shall be used to mount the plywood. The plywood shall be sanded to a smooth finish and receive no less than three (3) coats of varnish.</p> <p><u>RUB RAIL</u></p> <p>Bottom edge of the side compartments shall be trimmed with a bright aluminum extruded rub rail.</p> <p>Trim shall be 2.12" high with 1.38" flanges turned outward for rigidity.</p> <p>The rub rails shall not be an integral part of the body construction, which allows replacement in the event of damage.</p> <p><u>BODY FENDER CROWNS</u></p> <p>Stainless steel fender crowns shall be provided around the rear wheel openings.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>A rubber welting shall be provided between the body and the crown to seal the seam and restrict moisture from entering.</p> <p><u>HARD SUCTION HOSE</u></p> <p>Two (2) lengths of 6.00" clear corrugated PVC hard suction hose, 10' in length, shall be provided. The hose shall be equipped with a long handle female coupling on one (1) end and a rocker lug male coupling on the other end. Couplings shall be hard coated aluminum.</p> <p><u>HANDRAILS</u></p> <p>The handrails shall be 1.25" diameter anodized aluminum extrusion, with a ribbed design, to provide a positive gripping surface.</p> <p>Chrome plated end stanchions shall support the handrail. Plastic gaskets shall be used between end stanchions and any painted surfaces.</p> <p>Drain holes shall be provided in the bottom of all vertically mounted handrails.</p> <ul style="list-style-type: none"> - Four (4) handrails shall be provided, two above each side pump panel. - One (1) vertical handrail shall be provided on the driver's side body, on the front bulkhead door frame. - Two (2) handrails shall be provided mounted on the front of the body to meet NFPA requirements for the pull out steps under the running boards. <p><u>PIKE POLE 6 FT, PROVIDED BY FIRE DEPARTMENT</u></p> <p>NFPA 1901, 2009 edition, Section 7.7.3.1 requires one (1) 6 ft pike pole or plaster hook mounted in a bracket fastened to the apparatus.</p> <p>The pike pole is not on the apparatus as manufactured. The fire department shall provide and mount the pike pole.</p> <p><u>STEPS</u></p> <p>Six (6) folding step shall be provided on the front of each fender compartment. The step shall be bright finished, non-skid with a luminescent coating that is rechargeable from any light source and can hold a charge for up to 24 hours. Each step shall incorporate an LED light to illuminate the stepping surface. The step can be used as a hand hold with two openings wide enough for a gloved hand. There shall be three steps evenly placed on the right and left front inside corner area evenly spaced to allow climbing access to the top of the tank and front hose bed area.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>PLATFORM, SLIDE-OUT</u></p> <p>Two (2) slide out platforms shall be provided under the running boards on each side of the body. The capacity rating shall be 500 lbs in the extended position. Automatic locks shall be provided for both the "in" and "out" positions. The trip mechanism for the locks shall be located at the front of the tray for ease of use with a gloved hand.</p> <p><u>PUMP</u></p> <p>Pump shall be a Darley LSP 1000 gpm midship mounted centrifugal type. It shall be driven by PTO from the vehicle transmission.</p> <p>Pump shall deliver the percentage of rated discharge at pressures indicated below:</p> <ul style="list-style-type: none"> - 100% of rated capacity at 150 psi net pump pressure. - 70% of rated capacity at 200 psi net pump pressure. - 50% of rated capacity at 250 psi net pump pressure. <p>Pump body shall be fine-grained gray iron, bronze fitted. The pump shall be easily separated from a one-piece section for convenient servicing when required.</p> <p>The impellers shall be high strength bronze alloy accurately balanced and splined to pump shaft for precision fit and durability. Double seal ring design shall help to minimize end thrust.</p> <p>Deep groove radial type oversize ball bearings shall be provided. The bearings shall be protected at the openings from road dirt and water with an oil seal and a water slinger.</p> <p><u>MECHANICAL SEALS</u></p> <p>Mechanical seals shall be provided for the pump.</p> <p><u>PUMP TRANSMISSION</u></p> <p>A three gear transmission with helical gears and a 1.375" diameter splined shaft shall be provided.</p> <p>The pump transmission shall be driven by a hotshift PTO attached to the Allison Transmission</p> <p>An interlock system shall be provided to ensure that the pump drive system components are properly engaged so that the apparatus can be safely operated. Interlock system shall be designed to allow the truck to be in motion while pumping.</p> <p><u>PUMP SHIFT</u></p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>A pump shift shall be provided within easy reach of the driver for engagement of the PTO driven pump. The shift shall include the indicator lights as mandated by NFPA. The pump shift control shall be illuminated to meet NFPA requirements.</p> <p><u>AUXILIARY COOLING SYSTEM</u></p> <p>A supplementary heat exchange cooling system shall be provided to allow the use of water from the discharge side of the pump for cooling the engine water. The pump casting shall be designed to be used as a heat exchanger.</p> <p><u>INTAKE RELIEF VALVE</u></p> <p>An Elkhart relief valve shall be installed on the suction side of the pump preset at 125 psig. Relief valve shall have a working range of 75 psig to 250 psig. Outlet shall terminate below the frameroils with a 2.50" National Standard hose thread adapter and shall have a "do not cap" warning tag. Control shall be located behind an access door at the right (passenger's) side pump panel.</p> <p><u>PRESSURE GOVERNOR</u></p> <p>This apparatus shall be equipped with a Class1 "Total Pressure Governor" engine/pump governor/throttle system that is connected directly to the Electronic Control Module (ECM) mounted on the engine. The "Total Pressure Governor" is to operate as a pressure sensor (regulating) governor (PSG).</p> <p>A special preset feature shall permit a predetermined pressure or RPM to be set. The preset pressure or RPM will be displayed on the message display of the "Total Pressure Governor". The preset shall be easily adjustable by the operator</p> <p>The pressure sensor governor system shall be operable only after the vehicle parking brake has been set, the transmission is in pump mode, and the fire pump has been engaged.</p> <p>The pressure sensor governor system shall have two (2) modes of operation: pressure mode or rpm mode.</p> <p>When in the pressure mode, the PSG system shall automatically maintain the discharge pressure set by the operator regardless of flow (within engine/pump operating capabilities).</p> <p>In the rpm mode, the PSG system shall automatically maintain a set engine speed, regardless of engine load (within engine operation capabilities).</p> <p>A pump cavitation protection feature shall be provided which shall return the engine to idle should the pump cavitate.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>The pressure controller shall incorporate monitoring for engine coolant temperature, oil pressure, and battery voltage.</p> <p><u>PRIMING PUMP</u></p> <p>The priming pump shall be a Trident Emergency Products compressed air powered, high efficiency, multistage venturi based AirPrime System, conforming to standards outlined in the current edition of NFPA 1901.</p> <p>All wetted metallic parts of the priming system are to be of brass and stainless steel construction.</p> <p>One (1) priming control shall open the priming valve and start the pump primer.</p> <p><u>RECIRCULATING LINE</u></p> <p>A .50" diameter recirculating line, from the pump to the water tank, shall be furnished with a control installed at the pump operator's control panel.</p> <p><u>PUMP MANUALS</u></p> <p>Two (2) pump manuals from the pump manufacturer shall be furnished with the apparatus. Manuals shall cover pump operation, maintenance, and parts.</p> <p><u>PLUMBING</u></p> <p>All inlet and outlet plumbing, 3.00" and smaller, shall be plumbed with either stainless steel pipe or synthetic rubber hose reinforced with high-tensile polyester braid. Small diameter secondary plumbing such as drain lines shall be stainless steel, brass or hose.</p> <p>Where vibration or chassis flexing may damage or loosen piping or where a coupling is required for servicing, the piping shall be equipped with victaulic or rubber couplings.</p> <p>Plumbing manifold bodies shall be ductile cast iron or stainless steel.</p> <p>All lines to drain through either a master drain valve or shall be equipped with individual drain valves. All individual drain lines for discharges shall be extended with a hose to drain below the chassis frame.</p> <p>All water carrying gauge lines shall be of flexible polypropylene tubing.</p> <p><u>MAIN PUMP INLETS</u></p> <p>A 6.00" pump manifold inlet shall be provided on each side of the vehicle. The suction inlets shall include removable die cast zinc screens that are designed to provide cathodic protection for</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>the pump, thus reducing corrosion in the pump.</p> <p>The main pump inlets shall have National Standard Threads with a long handle chrome cap.</p> <p>The cap shall be the VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected. (no exception)</p> <p><u>VALVES</u></p> <p>All ball valves shall be Akron Brass in-line valves. The Akron valves shall be the 8000 series heavy-duty style with a stainless steel ball and a simple two-seat design. No lubrication or regular maintenance is required on the valve.</p> <p>Valves shall have a ten (10) year warranty.</p> <p><u>INLET (Left side)</u></p> <p>On the left side pump panel shall be one (1) 2.50" auxiliary suction, terminating in 2.50" National Standard Hose Thread. The auxiliary suction shall be provided with a strainer, chrome swivel and plug.</p> <p>Inlet valve location shall be outside of the pump panel.</p> <p><u>INLET CONTROL</u></p> <p>Control for the side auxiliary inlets shall be located at the inlet valve.</p> <p><u>INLET BLEEDER VALVE</u></p> <p>A .75" bleeder valve shall be provided for each side gated inlet. The valves shall be located behind the panel with a swing style handle control extended to the outside of the panel. The handles shall be chrome plated and provide a visual indication of valve position. The swing handle shall provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. The water discharged by the bleeders shall be routed below the chassis frame rails.</p> <p><u>TANK TO PUMP</u></p> <p>The booster tank shall be connected to the intake side of the pump with heavy duty 4.00" piping and a quarter turn 3.00" valve with the control remotely located at the operator's panel. A rubber coupling shall be included in this line to prevent damage from vibration or chassis flexing.</p> <p>A check valve shall be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>TANK REFILL</u></p> <p>A 2.50" tank refill shall be provided using a quarter-turn full flow ball valve, controlled from the pump operator's panel.</p> <p><u>DISCHARGE OUTLETS (Left Side)</u></p> <p>There shall be one (1) discharge outlet with a 2.50" valve on the left side of the apparatus, terminating with a male 2.50" National Standard hose thread adapter.</p> <p><u>DISCHARGE OUTLETS (Right Side)</u></p> <p>There shall be one (1) discharge outlet 2.50" valve on the right side of the apparatus, terminating with a male 2.50" National Standard hose thread adapter.</p> <p><u>DISCHARGE OUTLET, 4.00"</u></p> <p>There shall be a 4.00" discharge outlet with a 3.50" Akron Slo-Cloz valve with a 3.00" ball, installed on the right side of the apparatus, terminating with a male 4.00" National Standard hose thread adapter. This discharge outlet shall be actuated with a lever control at the pump operator's control panel.</p> <p><u>DISCHARGE CAPS</u></p> <p>Chrome plated, rocker lug, caps with chains shall be furnished for all side discharge outlets.</p> <p>The caps shall be the VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected. (no exception)</p> <p><u>OUTLET BLEEDER VALVE</u></p> <p>A .75" bleeder valve shall be provided for each outlet 1.50" or larger. Automatic drain valves are acceptable with some outlets if deemed appropriate with the application.</p> <p>The valves shall be located behind the panel with a swing style handle control extended to the outside of the side pump panel. The handles shall be chrome plated and provide a visual indication of valve position. The swing handle shall provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. Bleeders shall be located at the bottom of the pump panel. They shall be properly labeled identifying the discharge they are plumbed in to. The water discharged by the bleeders shall be routed below the chassis frame rails.</p> <p><u>ELBOWS, LEFT SIDE OUTLETS</u></p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>The 2.50" discharge outlets, located on the left side pump panel, shall be furnished with a 2.50"(F) National Standard hose thread x 2.50"(M) National Standard hose thread, chrome plated, 45 degree elbow.</p> <p>The elbow shall be the VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected. (no exception)</p> <p><u>ELBOWS, RIGHT SIDE OUTLETS</u></p> <p>The 2.50" discharge outlets, located on the right side pump panel, shall be furnished with a 2.50"(F) National Standard hose thread x 2.50"(M) National Standard hose thread, chrome plated, 45 degree elbow.</p> <p>The elbow shall be the VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected. (no exception)</p> <p><u>ELBOW, 4.00" OUTLET</u></p> <p>The 4.00" outlet shall be furnished with a 4.00"(F) National Standard hose thread x 4.00" Storz elbow adapter with Storz cap.</p> <p><u>DISCHARGE OUTLET CONTROLS</u></p> <p>The discharge outlets shall incorporate a quarter-turn ball valve with the control located at the pump operator's panel. The valve operating mechanism shall indicate the position of the valve.</p> <p>If a handwheel control valve is used, the control shall be a minimum of a 3.9" diameter chrome plated handwheel with a dial position indicator built in to the center of the handwheel.</p> <p><u>CROSSLAY HOSE BED</u></p> <p>One (1) crosslay with 1.50" outlet shall be provided. The bed to be capable of carrying 200 feet of 1.75" double jacketed hose and shall be plumbed with 2.00" i.d. pipe and gated with a 2.00" quarter turn ball valve.</p> <p>Outlet to be equipped with a 1.50" National Standard hose thread 90 degree swivel located in the hose bed so that hose may be removed from either side of apparatus.</p> <p>The crosslay control shall be at the pump operator's panel.</p> <p>The center crosslay dividers shall be fabricated of .25" aluminum and shall provide adjustment from side to side. The divider shall be unpainted with a DA finish.</p> <p>Vertical scuffplates, constructed of stainless steel, shall be provided at the front and rear ends of the bed on each side of vehicle.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>Crosslay bed flooring shall consist of removable perforated brushed aluminum.</p> <p><u>CROSSLAY HOSE BEDS, 2.50"</u></p> <p>One (1) crosslay with 2.50" outlets shall be provided. This bed to be capable of carrying 200 feet of 2.50" double jacketed hose and shall be plumbed with 2.50" i.d. pipe and gated with a 2.50" quarter turn ball valve.</p> <p>Outlet to be equipped with a 2.50" National Standard hose thread 90 degree swivel located in the hose bed so that hose may be removed from either side of apparatus.</p> <p>The crosslay control shall be at the pump operator's panel.</p> <p>The center crosslay dividers shall be fabricated of .25" aluminum and shall provide adjustment from side to side. The divider shall be unpainted with a brushed finish. The remainder of the crosslay bed shall be painted job color.</p> <p>Stainless steel vertical scuffplates shall be provided at hose bed ends (each side of vehicle). Bottom of hose bed ends (each side) shall also be equipped with a stainless steel scuffplate.</p> <p>Crosslay bed flooring shall consist of removable perforated brushed aluminum.</p> <p><u>CROSSLAY/DEADLAY HOSE RESTRAINT</u></p> <p>A black 1.00" nylon webbing design with 2.00" box pattern shall be provided across each end of three (3) crosslay/deadlays to secure the hose during travel. The webbing shall be permanently attached at the top of the crosslay/deadlay openings. 1.00" web straps shall loop through footman loops located at the opposite end of the permanently attached webbing. The straps shall attach with a pair of velcro straps fasteners.</p> <p><u>CROSSLAY/DEADLAY HOSE RESTRAINT</u></p> <p>An aluminum treadplate cover, hinged at the front shall be installed over the top of the crosslay/deadlays. It shall include a latch at each end of the cover to hold it securely in place, a chrome grab handle at each end for opening and closing the cover and a foam rubber gasket where the cover comes into contact to a painted surface. The cover shall be provided with rubber latch hold open device.</p> <p><u>CROSSLAY ROLLER</u></p> <p>A stainless steel roller shall be mounted horizontally and vertically at each crosslay opening to aid in hose removal. The vertical rollers shall be installed on the dividers and to the front and rear of the crosslays.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>PUMP COMPARTMENT</u></p> <p>The pump compartment shall be separate from the hose body and compartments so that each may flex independently of the other. It shall be a fabricated assembly of steel tubing, angles and channels which supports both the fire pump and the side running boards.</p> <p>The pump compartment shall be mounted on the chassis frame rails with rubber biscuits in a four point pattern to allow for chassis frame twist.</p> <p>Pump compartment, pump, plumbing and gauge panels shall be removable from the chassis in a single assembly.</p> <p><u>PUMP MOUNTING</u></p> <p>Pump shall be mounted to a substructure which shall be mounted to the chassis frame rail using rubber isolators. The mounting shall allow chassis frame rails to flex independently without damage to the fire pump.</p> <p><u>PUMP CONTROL PANELS (Side Control)</u></p> <p>All pump controls and gauges shall be located at the left (driver's) side of the apparatus and properly marked.</p> <p>The pump panel on the right (passenger's) side shall be removable with lift and turn type fasteners. The left (driver's) side shall be fastened with screws.</p> <p>The control panels shall be 34.00" wide.</p> <p>The gauge and control panels shall be two (2) separate panels for ease of maintenance.</p> <p>Polished stainless steel trim collars shall be installed around all inlets and outlets.</p> <p>All push/pull valve controls shall have 1/4 turn locking control rods with polished chrome plated zinc tee handles. Guides for the push/pull control rods shall be chrome plated zinc castings securely mounted to the pump panel. Push/pull valve controls shall be capable of locking in any position. The control rods shall pull straight out of the panel and shall be equipped with universal joints to eliminate binding.</p> <p>All line pressure gauges shall be mounted in individual chrome plated castings with the identification tag recessed in the casting below the gauge. All remaining identification tags shall be mounted on the pump panel in chrome plated bezels. Mounting of the castings and identification bezels shall be done with a threaded peg cast on the back side of the bezel or screws.</p> <p><u>PUMP PANEL CONFIGURATION</u></p> <p>The pump panel configuration shall be neat and orderly.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>PUMP AND GAUGE PANEL</u></p> <p>The pump and gauge panels shall be constructed of aluminum and covered with Black Line-X polyurethane/polurea elastomer abrasive resistant material. A polished aluminum trim molding shall be provided on both sides of the pump panel.</p> <p>The gauge panel shall be hinged at the bottom with a full length stainless steel hinge. The fasteners that hold the panel in the upright position shall be quarter-turn style. Vinyl covered chains shall be used to hold the panel in the dropped position.</p> <p>The passenger's side pump panel shall be removable and fastened with swell type fasteners.</p> <p><u>PUMP COMPARTMENT LIGHT</u></p> <p>A pump compartment light shall be provided inside the right side pump enclosure and accessible through a door on the pump panel.</p> <p>A .125" weep hole shall be provided in each light lens, preventing moisture retention.</p> <p>Engine monitoring graduated LED indicators shall be incorporated with the pressure controller.</p> <p><u>GAUGES, VACUUM and PRESSURE</u></p> <p>The pump vacuum and pressure gauges shall be liquid filled and manufactured by Class 1, Inc.</p> <p>The gauges shall be a minimum of 4.00" in diameter and shall have white faces with black lettering, with a pressure range of 30.00"-0-600#.</p> <p>Gauge construction shall include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut.</p> <p>The pump pressure and vacuum gauges shall be installed adjacent to each other at the pump operator's control panel.</p> <p>Test port connections shall be provided at the pump operator's panel. One shall be connected to the intake side of the pump, and the other to the discharge manifold of the pump. They shall have 0.25 in. standard pipe thread connections and non-corrosive polished stainless steel or brass plugs. They shall be marked with a label.</p> <p>Vacuum and pressure gauges shall include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.</p> <p><u>PRESSURE GAUGES</u></p> <p>The individual "line" pressure gauges for the discharges shall be interlube filled and manufactured by Class 1.</p> <p>They shall be a minimum of 2.50" in diameter and shall have white faces with black lettering.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>Gauges shall be compound type with a vacuum/pressure range of 30.00"-0-400#.</p> <p>The individual pressure gauge shall be installed as close to the outlet control as practical.</p> <p>These gauges shall include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.</p> <p><u>WATER LEVEL GAUGE</u></p> <p>An electronic water level gauge shall be provided on the operator's panel, that registers water level by means of five colored LED lights. The lights shall be durable, ultra-bright five LED design viewable through 180 degrees. The water level indicators shall be as follows:</p> <ul style="list-style-type: none"> - 100% = Green - 75% = Yellow - 50% = Yellow - 25% = Yellow - Refill = Red <p>The light shall flash when the level drops below the given level indicator to provide an eighth of a tank indication. To further alert the pump operator, the lights shall flash sequentially when the water tank is empty.</p> <p>The level measurement shall be based on the sensing of head pressure of the fluid in the tank.</p> <p>The display shall be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design shall provide complete protection from water and environmental elements. An industrial pressure transducer shall be mounted to the outside of the tank. The field calibratable display measures head pressure to accurately show the tank level.</p> <p><u>WATER LEVEL GAUGE, BODY SIDES</u></p> <p>There shall be two (2) additional water level indicators, Whelen® CAST4V aluminum housings shall be installed, one (1) on the left side and one (1) on the right side on the rearward upper part of the tank. These housings are to include the following indication lights:</p> <ul style="list-style-type: none"> Top one (1) – Whelen 600 series green LED with maximum angularity for visibility. Middle two (2) – Whelen 600 series amber with maximum angularity for visibility. Bottom one (1) - Whelen 600 series red with maximum angularity for visibility. <p>The bottom light shall flash to indicate diminishing water level</p> <p>The tank level system shall be redundant to the tank level indicator on the pump panel and be</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>activated when the parking brake is set.</p> <p><u>LIGHT SHIELD</u></p> <p>There shall be a polished, 16 gauge stainless steel light shield installed over the pump operators panel.</p> <ul style="list-style-type: none"> • There shall be 12 volt DC white LED lights installed under the stainless steel light shield to illuminate the controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus. These lights shall be activated by the pump panel light switch. Additional lights shall be included every 18.00" depending on the size of the pump house. • One (1) pump panel light shall come on when the pump is in ok to pump mode. <p>There shall be a light activated above the pump panel light switch when the parking brake is set. This is to afford the operator some illumination when first approaching the control panel.</p> <p>There shall be a green pump engaged indicator light activated on at the operator's panel when the pump is shifted into gear from inside the cab.</p> <p><u>AIR HORN SYSTEM</u></p> <p>Two (2) Grover air horns shall be provided and located one (1) each side of the engine. The horn system shall be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve shall be installed in-line to prevent the loss of air, in the air brake system.</p> <p><u>AIR HORN CONTROL</u></p> <p>The air horns shall be actuated by a foot switch on the officer's side and by the horn button in the steering wheel. The driver shall have the option to control the air horns or the chassis horns from the horn button by means of a selector switch located on the instrument panel.</p> <p><u>ELECTRONIC SIREN</u></p> <p>A Whelen, Model: 295SLSA1, electronic siren with noise canceling microphone shall be provided.</p> <p>Siren head shall be located on the front of the driver's console.</p> <p>Siren shall be actuated by a foot switch on the officer's side and by the horn button in the steering wheel. The driver shall have the option to control the siren or the chassis horns from the horn button by means of a selector switch.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>SPEAKER</u></p> <p>There shall be one (1) speaker provided. Each speaker shall be a Whelen, Model: SA31I01, 100-watt under mount.</p> <p>The speaker shall be connected to the siren amplifier.</p> <p>The speaker shall be mounted below the front bumper on the driver's side.</p> <p>The speaker will be tucked up inside the front bumper to keep it protected.</p> <p><u>INTERLOCK, ELECTRONIC SIREN</u></p> <p>The electronic siren shall be interlocked to shut off when the parking brake is set.</p> <p><u>LIGHTBAR</u></p> <p>There shall be one (1) 72.00" Whelen Freedom, Model FN**QLED, LED lightbar mounted on the cab roof.</p> <p>The lightbar shall include the following:</p> <ul style="list-style-type: none"> • Four (4) red flashing LED modules facing forward. • Four (4) white flashing LED modules facing forward. • Two (2) red flashing corner LED modules, one in each front corner. • One (1) red flashing LED module facing the driver's side. • One (1) red flashing LED module facing the passenger's side. • One (1) GTT model 795 Opticom™, traffic light controller with national standard high priority. <p>The color of the lenses shall be clear.</p> <p>Two (2) switches located on a cab switch panel shall control this lightbar.</p> <ul style="list-style-type: none"> • One (1) switch shall control all the warning lights • One (1) switch shall control the traffic light controller <p>The white warning lights and the traffic light controller shall be disabled when the parking brake is applied.</p> <p><u>FRONT ZONE LOWER LIGHTING</u></p> <p>Two (2) Whelen model M4*C flashing LED warning lights with a chrome flange shall be provided on the cab face or grille.</p> <p>The driver's side front warning light to be red.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>The passenger's side front warning light to be red.</p> <p>Both lights shall include a clear lens.</p> <p>Both lights shall be controlled by a lighted switch on the cab instrument panel.</p> <p><u>SIDE WARNING LIGHTS</u></p> <p>There shall be six (6) Whelen, Model M6*C LED flashing warning lights with bezels provided, three (3) on each side of the apparatus; one (1) at the front of the chassis cab, one (1) at the center and one (1) at the rear of the body. Exact location of the lighting will be determined at the preconstruction meeting.</p> <p>The color of the lights shall be red.</p> <p>All of these lights shall include a clear lens.</p> <p>These lights shall be activated with the Side Zone Lower warning lights.</p> <p><u>REAR ZONE LOWER LIGHTING</u></p> <p>Two (2) Whelen, Model M6*C LED flashing warning lights shall be located at the rear of the apparatus.</p> <p>The driver's side rear light to be blue.</p> <p>The passenger's side rear light to be red.</p> <p>Both lights shall include a lens that is clear.</p> <p>Both lights shall be controlled by a lighted switch on the switch panel.</p> <p><u>WARNING LIGHTS (Rear)</u></p> <p>There shall be two (2) Whelen Model M6*C LED flashing warning lights with bezels provided on the upper, outside corners of the rear of the body.</p> <p>The color of these lights shall be one (1) blue light on the passenger's side and one (1) red light on the driver's side.</p> <p>These lights shall be controlled with the rear upper warning switch.</p> <p>These lights shall include a lens that is clear.</p> <p><u>WARNING LIGHTS (Rear of Hose Bed)</u></p> <p>There shall be one (1) Whelen Model L31HRF red LED warning beacon and one (1) Whelen</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>Model L31HAFN amber LED warning beacon provided at the rear of the truck.</p> <p>The lens color of these lights shall be clear.</p> <p>The red beacon and the amber beacon shall be located with the amber on the driver's side and the red on the passenger's side.</p> <p>These lights shall be activated by a lighted switch on the instrument panel.</p> <p>The rear warning lights shall be mounted on stainless steel brackets with all wiring totally enclosed. These brackets shall also support the clearance/marker lights.</p> <p><u>LOOSE EQUIPMENT</u></p> <p>The following equipment shall be furnished with the completed unit:</p> <ul style="list-style-type: none"> - One (1) bag of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit - Two (2) lengths of 6.00" clear corrugated PVC hard suction hose, 10' in length, shall be provided. <p><u>NFPA REQUIRED LOOSE EQUIPMENT, PROVIDED BY FIRE DEPARTMENT</u></p> <p>The following loose equipment as outlined in NFPA 1901, 2009 edition, section 7.7.2.1, 7.7.2.2, and 7.7.3.1 shall be provided by the fire department. All loose equipment shall be installed by the fire department on the apparatus before placed in emergency service, unless the fire department waives NFPA section 4.21.</p> <ul style="list-style-type: none"> - 200 ft (60 m) of 2½" (65 mm) or larger fire hose. - 400 ft (120 m) of 1½" (38 mm), 1¾" (45 mm), or 2" (52 mm) fire hose (if equipped with a fire pump). - Two (2) handline nozzles, 95 gpm (360 L/min) minimum (if equipped with a fire pump). - One (1) SCBA complying with NFPA 1981, <i>Standard on Open-Circuit Self-Contained Breathing Apparatus for Fire and Emergency Services</i>, for each assigned seating position, but not fewer than two (2), mounted in brackets fastened to the apparatus or stored in containers supplied by the SCBA manufacturer. - One (1) spare SCBA cylinder for each SCBA carried, each mounted in a bracket fastened to the apparatus or stored in a specially designed storage space. - One (1) first aid kit. - Two (2) combination spanner wrenches mounted in a brackets fastened to the apparatus. - One (1) hydrant wrench mounted in a bracket fastened to the apparatus. - One (1) double female adapter, sized to fit 2½" (65 mm) or larger fire hose, mounted in a 		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>bracket fastened to the apparatus.</p> <ul style="list-style-type: none"> - One (1) double male adapter, sized to fit 2½" (65 mm) or larger fire hose, mounted in a bracket fastened to the apparatus. - One (1) rubber mallet, for use on suction hose connections, mounted in a bracket fastened to the apparatus (if equipped with a fire pump). - One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 207, <i>Standard for High Visibility Public Safety Vests</i>, and have a five-point breakaway feature that includes two at the shoulders, two at the sides, and one at the front. - Five (5) fluorescent orange traffic cones not less than 28" (711 mm) in height, each equipped with a 6" (152 mm) retro-reflective white band no more than 4" (152 mm) from the top of the cone, and an additional 4" (102 mm) retro-reflective white band 2" (51 mm) below the 6" (152 mm) band. - Five (5) illuminated warning devices such as highway flares, unless the five (5) fluorescent orange traffic cones have illuminating capabilities. - One automatic external defibrillator (AED). - If none of the pump intakes are valved, a hose appliance that is equipped with one or more gated intakes with female swivel connection(s) compatible with the supply hose used on one side and a swivel connection with pump intake threads on the other side shall be carried. Any intake connection larger than 3 in. (75 mm) shall include a pressure relief device that meets the requirements of 16.6.6 (if equipped with pump). - If the apparatus does not have a 2½" National Hose (NH) intake, an adapter from 2½" NH female to a pump intake shall be carried, mounted in a bracket fastened to the apparatus if not already mounted directly to the intake. - If the supply hose carried has other than 2½" National Hose (NH) threads, adapters shall be carried to allow feeding the supply hose from a 2½" NH thread male discharge and to allow the hose to connect to a 2½" NH female intake, mounted in brackets fastened to the apparatus if not already mounted directly to the discharge or intake. <p><u>SOFT SUCTION HOSE</u></p> <p>There shall be no soft suction hose provided.</p> <ul style="list-style-type: none"> - One (1)-6.00" National Standard hose thread barrel strainer, chrome plated <p><u>DRY CHEMICAL EXTINGUISHER PROVIDED BY FIRE DEPARTMENT</u></p> <p>NFPA 1901, 2009 edition, section 7.7.3.1 requires one (1) approved dry chemical portable fire extinguisher with a minimum 80-B:C rating mounted in a bracket fastened to the apparatus.</p> <p>The extinguisher is not on the apparatus as manufactured. The fire department shall provide and</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>mount the extinguisher.</p> <p><u>WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT</u></p> <p>NFPA 1901, 2009 edition, section 7.7.3.1 requires one (1) 2.5 gallon or larger water extinguisher mounted in a bracket fastened to the apparatus.</p> <p>The extinguisher is not on the apparatus as manufactured. The fire department shall provide and mount the extinguisher.</p> <p><u>AXE, FLATHEAD, PROVIDED BY FIRE DEPARTMENT</u></p> <p>NFPA 1901, 2009 edition, Section 7.7.3.1 requires one (1) flathead axe mounted in a bracket fastened to the apparatus.</p> <p>The axe is not on the apparatus as manufactured. The fire department shall provide and mount the axe.</p> <p><u>COMMERCIAL CHASSIS REPAINT</u></p> <p>In order to assure a perfect match between the chassis cab and the rest of the apparatus, or to provide the specified color not typically available from a commercial chassis manufacturer, the chassis cab shall be repainted by the apparatus manufacturer.</p> <p>Since it is not practical to repaint certain areas of the cab such as the fire wall, radiator core support, or bottom of the cab, the best results shall be obtained by ordering the commercial chassis painted a neutral color.</p> <p><u>PAINT</u></p> <p>The exterior custom body painting finishing process as follows:</p> <p>Manual Surface Preparation - All exposed metal surfaces on the custom body shall be thoroughly cleaned and prepared for painting. Surfaces that shall not be painted include all chrome plated, stainless steel, anodized aluminum and bright aluminum treadplate. Each imperfection on the exterior metal surface shall be removed or filled and then sanded smooth for a smooth appearance. All seams shall be sealed before painting.</p> <p>Chemical Cleaning and Treatment - The metal surfaces shall be properly cleaned using an acid etching system. Surfaces are chemically cleaned to remove all dirt, oil, grease and metal oxides to ensure the subsequent coatings bond well. An ultra pure water final rinse shall be applied to all metal surfaces, excluding undercarriage components, at the conclusion of the metal treatment process.</p> <p>Sealer Primer Coat - A two (2) component sealer primer coat shall be applied.</p> <p>Topcoat Paint - Urethane base coat shall be applied to opacity for correct color matching.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>Clearcoat - Two (2) coats of an automotive grade two (2) component urethane shall be applied. Lap style doors shall be clear coated to match the body. Roll-up doors shall not be clear coated and the standard roll-up door warranty shall apply.</p> <p>All removable items such as brackets, compartment doors, door hinges, trim, etc. shall be removed and painted separately to insure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly shall be finish painted before assembly.</p> <p>To ensure a perfect color match between the body and chassis, the apparatus manufacturer shall also repaint the commercial chassis. The commercial cab/chassis and apparatus body shall be painted Sikkens Autocoat #114 red or comparable.</p> <p>Prior to reassembly and reinstallation of lights, handrails, door hardware and any miscellaneous body items, an isolation tape or gasket material must be used to prevent damage to the finish painted surfaces (no exceptions). A nylon washer shall be installed under each acorn nut or metal screw that is fastened directly to a painted body surface.</p> <p><u>PAINT - ENVIRONMENTAL IMPACT</u></p> <p>Contractor shall meet or exceed all current State (his) regulations concerning paint operations. Pollution control shall include measures to protect the atmosphere, water and soil. Controls shall include the following conditions:</p> <ul style="list-style-type: none"> - Topcoats and primers must be chrome and lead free. - Metal treatment chemicals must be chrome free. The wastewater generated in the metal treatment process must be treated to remove any other heavy metals. - Particulate emissions from painting operations must be collected by a dry filter or water wash process. - Solvents used in clean-up operations must be collected, sent off-site for distillation and returned for reuse. <p>Additionally, the finished apparatus shall not be manufactured with or contain products that have ozone depleting substances. Contractor shall, upon demand, present evidence that his manufacturing facility meets the above conditions and that it is in compliance with his State EPA rules and regulations.</p> <p><u>PAINT CHASSIS FRAME ASSEMBLY</u></p> <p>The chassis frame assembly shall be painted black by the chassis manufacturer. It shall remain the commercial grade finish as provided.</p> <p><u>PAINT, COMPARTMENT INTERIOR</u></p> <p>Interior of compartments shall be painted with a gray spatter type paint.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>REFLECTIVE BAND</u></p> <p>An 8.00" white reflective band shall be provided across the sides of the chassis and body, exact location of the stripe will be determined at the preconstruction meeting..</p> <p>A white reflective vinyl band shall be provided across the front bumper.</p> <p><u>CHEVRON STRIPING, REAR</u></p> <p>There shall be alternating chevron striping located on the rear-facing vertical surface of the water tank.</p> <p>The colors shall be red and fluorescent yellow green diamond grade.</p> <p>Each stripe shall be 6.00" in width.</p> <p>This shall meet the requirements of NFPA 1901, 2009 edition, which states that 50% of the rear surface shall be covered with chevron striping.</p> <p><u>REFLECTIVE STRIPE ON SLIDE OUT TRAYS</u></p> <p>A diamond grade reflective striping, 2.00" red and 2.00" white, shall be installed on the front and sides of the one (1) slide out trays/tool boards.</p> <p><u>REFLECTIVE STRIPE, CAB DOORS</u></p> <p>A white reflective stripe shall be provided on the interior of each cab door.</p> <p>This stripe shall be a minimum of 96.00 square inches and shall meet the NFPA 1901 requirement.</p> <p><u>LETTERING</u></p> <p>Twenty-one (21) to forty (40) reflective lettering, 8.00" high, with outline and shade shall be provided.</p> <p><u>LETTERING</u></p> <p>There shall be reflective lettering, 6.00" high, with outline and shade provided. There shall be 22 letters provided.</p> <p>Forty-one (41) to sixty (60) reflective lettering, 3.00" high, with no outline or shade shall be provided.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>DECAL INSTALLATION</u></p> <p>There shall be one (1) pair of decals furnished by the fire department and applied by the apparatus manufacturer.</p> <p><u>CD MANUAL, BODY PARTS ONLY</u></p> <p>A custom parts manual for the factory installed parts only shall be provided in CD format with the completed unit.</p> <p>The manual shall contain the following:</p> <ul style="list-style-type: none"> - Job number - Part numbers with full descriptions - Table of contents - Parts section sorted in functional groups reflecting a major system, component, or assembly - Parts section sorted in Alphabetical order - Instructions on how to locate parts <p>The manual shall be specifically written for the body model being purchased. It shall not be a generic manual for a multitude of different bodies.</p> <p><u>SERVICE PARTS INTERNET SITE</u></p> <p>The service parts information included in this manual are also available on the factory website. The website offers additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.</p> <p><u>MANUALS, SERVICE</u></p> <p>A CD format service manual supplement containing parts and service information on factory installed components shall be provided with the completed unit.</p> <p>The manual shall be specifically written for the unit being purchased. It shall not be a generic manual for a multitude of different units.</p> <p>One (1) chassis master service manual shall be provided with the completed unit.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>MANUAL, CHASSIS OPERATION</u></p> <p>One (1) chassis operation (manufacturers standard) shall be provided with the completed <u>unit</u>.</p> <p><u>ONE (1) YEAR MATERIAL AND WORKMANSHIP</u></p> <p>Each new piece of apparatus shall be provided with a minimum one (1) year basic apparatus material and workmanship limited warranty. The warranty shall cover such portions of the apparatus built by the manufacturer as being free from defects in material and workmanship that would arise under normal use and service.</p> <p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p> <p><u>CHASSIS WARRANTY</u></p> <p>The basic chassis warranty shall be for a total of three (3) years and 300,000 miles.</p> <p><u>TEN (10) YEAR PRO-RATED PAINT AND CORROSION</u></p> <p>Each new piece of apparatus shall be provided with a ten (10) year pro-rated paint and corrosion limited warranty on the apparatus cab. The warranty shall cover painted exterior surfaces of the body to be free from blistering, peeling, corrosion, or any other adhesion defect caused by defective manufacturing methods or paint material selection that would arise under normal use and service.</p> <p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p> <p><u>TRANSMISSION WARRANTY</u></p> <p>The transmission shall have a five (5) year/unlimited mileage warranty covering 100 percent parts and labor. The warranty to be provided by Allison Transmission and not apparatus builder.</p> <p><u>ENGINE WARRANTY</u></p> <p>The engine manufacturer’s standard warranty will be provided for the engine.</p> <p><u>TEN (10) YEAR STRUCTURAL INTEGRITY</u></p> <p>Each new piece of apparatus shall be provided with a ten (10) year material and workmanship limited warranty on the apparatus body. The warranty shall cover such portions of the apparatus built by the manufacturer as being free from defects in material and workmanship that would arise under normal use and service.</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p> <p><u>PUMP WARRANTY</u></p> <p>A Darley six (6) year warranty on parts and three (3) year warranty on labor shall be provided for the pump.</p> <p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p> <p><u>PUMP PLUMBING WARRANTY</u></p> <p>The stainless steel plumbing components and ancillary brass fittings used in the construction of the water/foam plumbing system shall be warranted for a period of ten (10) years or 100,000 miles. This covers structural failures caused by defective design or workmanship, or perforation caused by corrosion, provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original purchaser for a period of ten years from the date of delivery. A copy of the warranty shall be submitted with the bid. (no exception)</p> <p><u>LIFETIME MATERIAL AND WORKMANSHIP</u></p> <p>The UPF poly water tank shall be provided with a lifetime material and workmanship limited warranty.</p> <p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p> <p><u>TEN (10) YEAR PRO-RATED PAINT AND CORROSION</u></p> <p>Each new piece of apparatus shall be provided with a ten (10) year pro-rated paint and corrosion limited warranty on the apparatus body. The warranty shall cover painted exterior surfaces of the body to be free from blistering, peeling, corrosion, or any other adhesion defect caused by defective manufacturing methods or paint material selection that would arise under normal use and service.</p> <p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p> <p><u>ONE (1) YEAR MATERIAL AND WORKMANSHIP</u></p> <p>The graphic lamination shall be provided with a one (1) year material and workmanship limited warranty. The warranty shall cover the graphic lamination as being free from defects in material, workmanship, fading, and deterioration that would arise under normal use and service.</p> <p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p>		
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Specification Certification 3000 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p><u>VEHICLE STABILITY CERTIFICATION</u></p> <p>The fire apparatus manufacturer shall provide a certification stating the apparatus complies with NFPA 1901, current edition, section 4.13, Vehicle Stability. The certification shall be provided at the time of bid.</p> <p><u>CAB INTEGRITY</u></p> <p>The cab has been tested to and passed the following standards:</p> <ul style="list-style-type: none"> - SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks. <p style="text-align: center;">END OF 3000 GALLON WATER TENDER SPECIFICATION</p> <p>*****</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>CHASSIS The chassis shall be an International, WorkStar 7400 SBA, supplied with the following equipment:</p> <p>WHEELBASE The wheelbase of the vehicle shall be no greater than 193".</p> <p>GVW RATING The gross vehicle weight rating shall be a minimum of 40,000#.</p> <p>FRAME The frame rails shall be formed from 120,000 psi yield, heat treated alloy steel.</p> <p>FRONT AXLE Front axle shall be an "I" beam type, made of forged steel. It shall be an International, model I-120S, with a ground rating capacity of 13,000 pounds.</p> <p>FRONT SUSPENSION Spring mounted: Parabolic, Taper Leaf Capacity at ground: 14,000 lb Shock Absorbers: Double Acting Shock absorbers shall be provided on the front axle.</p> <p>TIRES, FRONT Front tires shall be Goodyear, 12R22.50, radial tires with a tread pattern suitable for the steering axle position. The tire capacity shall meet or exceed the capacity of the axle and/or suspension.</p> <p>WHEELS, FRONT Wheels for the front axle shall be 22.50" x 8.25" steel disc, ten (10)-hole pattern.</p> <p>REAR AXLE The rear axle shall be a Meritor axle with a ground rating capacity of 26,000 lb. The brake chambers shall be forward mounted and brakes shall be 16.50" x 7.00", S-Cam type, with cast shoes.</p> <p>PARKING BRAKE The parking brake shall be spring set and located on the rear axle service brake.</p> <p>REAR AXLE RATIO A rear axle ratio shall be furnished to allow the vehicle to reach a top speed of 60 MPH.</p> <p>REAR SUSPENSION The rear suspension shall be Vari-Rate multi-leaf spring suspension with a capacity at ground of 31,000 lbs. Auxiliary rubber spring suspension with a capacity of 4500 lbs. shall be included.</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
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<p>DUST SHIELDS The front and rear brakes shall be provided with dust shields.</p> <p>TIRES, REAR Rear tires shall be Goodyear 12R22.50 radial tires with a traction tread pattern suitable for the drive axle position. The tires shall meet or exceed the weight rating of the axle and/or suspension.</p> <p>WHEELS, REAR The rear wheels shall be 22.50" x 8.25" steel disc with a ten (10)-hole pattern.</p> <p>TIRE PRESSURE MANAGEMENT There shall be a VECSAFE LED tire alert pressure management system provided that shall monitor each tire's pressure. A chrome plated brass sensor shall be provided on the valve stem of each tire for a total of six (6) tires.</p> <p>The sensor shall calibrate to the tire pressure when installed on the valve stem for pressures between 20 and 120 psi. The sensor shall activate an integral battery operated LED when the pressure of that tire drops eight (8) psi.</p> <p>Removing the cap from the sensor shall indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED shall immediately start blinking.</p> <p>COVERS, LUG NUT, CHROME Chrome lug nut covers shall be supplied on front and rear wheels.</p> <p>WHEEL CHOCKS, PROVIDED BY FIRE DEPARTMENT NFPA 1901, 2009 edition, section 7.7.3.1 requires two or more wheel chocks mounted in readily accessible locations that together shall hold the apparatus, when loaded to its GVWR or GCWR, on a hard surface with a 20 percent grade with the transmission in neutral and the parking brake released.</p> <p>The wheel chocks are not on the apparatus as manufactured. The fire department shall provide and install these wheel chocks.</p> <p>WHEEL CHOCK BRACKETS, PROVIDED BY FIRE DEPARTMENT The wheel chock brackets are not on the apparatus as manufactured. The fire department shall provide and install the wheel chock brackets.</p> <p>ANTI-LOCK BRAKE SYSTEM The vehicle shall be equipped with an anti-lock braking system. The ABS shall provide anti-lock braking control on both the front and rear wheels. It is to be a digitally controlled system that utilizes microprocessor technology to control the anti-lock braking system. Each wheel is to be monitored by the system. When any particular wheel begins to lockup, a signal is to be sent to the control unit. This control unit then shall reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system shall eliminate the lockup of any wheel thus helping</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>to prevent the apparatus from skidding out of control.</p> <p>FRONT BRAKES The front brakes shall be S-Cam, 16.50" x 5.00".</p> <p>AIR COMPRESSOR, BRAKE SYSTEM The air compressor shall be a Bendix TU-FLO 550 with 13.20 cubic feet per minute output.</p> <p>AIR DRYER A Bendix AD-IP air dryer with a heater shall be provided.</p> <p>AIR INLET WITH AUTOMATIC EJECT A single air inlet with Kussmaul Air Eject shall be provided. It shall allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet shall automatically disconnect the air line when the truck is started. It shall be equipped with a male coupling and be located in the driver side lower step well of cab. A check valve shall be provided to prevent reverse flow of air. The inlet shall discharge into the "wet" tank of the brake system. A mating female coupling shall also be provided with the loose equipment.</p> <p>ENGINE</p> <ul style="list-style-type: none"> - Model: MaxxForce 9 - Number of Cylinders: Six (6) - Bore and Stroke: 4.59" x 5.75" - Displacement: 570 cubic inches - Compression Ratio: 17.5:1 - Rated Brake Horsepower: 330 at 2000 rpm - Peak Torque: 950 at 1200 rpm - Governed rpm: 2200 - Turbocharger - Charge Air Cooled - Combustion System: Direct injection, electronically controlled <p>ENGINE ACCESSORIES</p> <ul style="list-style-type: none"> - Fan Clutch: Electric with nylon fan - Air Cleaner: Dry type, with restriction indicator in cab - Fuel Filters: Dual, with check valve - Governor: Limiting speed type 		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<ul style="list-style-type: none"> - Lube Oil Cooler - Lube Oil Filter: Full flow - Starting Motor: 12-volt - Oil Fill and Level Gauge - Hand Operated, Reprime Pump <p>ENGINE WARRANTY The engine shall come with a five (5) year warranty provided by the engine manufacturer.</p> <p>RADIATOR</p> <ul style="list-style-type: none"> - Pressurized System, Tube, and Fin - Deaeration Tank and Sight Glass - Anti-Freeze Protection to -40 Degrees Fahrenheit. <p>HIGH IDLE A high idle switch shall be provided on the instrument panel inside the cab. Activating the switch shall cause the vehicle to automatically maintain a preset engine rpm.</p> <p>The high idle switch shall be operational only when the parking brake is on and the truck transmission is in neutral. A green indicator light shall be provided adjacent to the switch. The light shall be labeled "OK To Engage High Idle."</p> <p>EXHAUST BRAKE The International electronically activated exhaust brake shall be installed with the control located on the instrument panel within easy reach of the driver.</p> <p>AIR INTAKE, w/EMBER SEPARATOR The air inlet shall be equipped with a stainless steel mesh to separate water and burning embers from the air intake system such that particulate matter larger than 0.039" (1.0 mm) in diameter cannot reach the air filter element.</p> <p>This shall comply with NFPA 1901 and 1906 standards.</p> <p>EXHAUST SYSTEM The exhaust system shall include a diesel particulate filter and a diesel oxidation catalyst to meet current EPA standards. The exhaust shall terminate with a horizontal tailpipe and diffuser ahead of the passenger side rear wheels.</p> <p>A heat deflector shield shall be provided where the tail pipe is routed under any side compartmentation.</p> <p>COOLANT LINES Premium rubber hose shall be used for all engine coolant lines installed by the chassis manufacturer.</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
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<p>Hose clamps shall be of a design commonly called constant torque type to prevent coolant leakage. They shall react to temperature changes in the cooling system and expand or contract accordingly while maintaining a constant clamping pressure on the hose.</p> <p>FUEL TANK A 50 gallon fuel tank shall be provided and mounted at the right-hand cab step. The tank shall be constructed of welded aluminum.</p> <p>TRANSMISSION An Allison, model 3000 EVS, electronic torque converting automatic transmission shall be provided. The EVS rating of the transmission shall require the use of synthetic transmission fluid.</p> <p>Two (2) PTO openings shall be located at positions of 8 o'clock and 4 o'clock. In some configurations certain other components may block access to an available position.</p> <p>A transmission temperature gauge or warning light shall be installed on cab instrument panel.</p> <p>TRANSMISSION SHIFT CONTROL A push button shift module shall be mounted to right of driver. Shift position indicator shall be indirectly lit for after dark operation.</p> <p>The transmission shall be a five (5)-speed. The transmission ratios shall be 1st - 3.49 to 1.00, 2nd - 1.86 to 1.00, 3rd - 1.41 to 1.00, 4th - 1.00 to 1.00, 5th - 0.75 to 1.00, R - 5.03 to 1.00.</p> <p>TRANSMISSION COOLER A transmission oil cooler shall be provided in the lower tank of the radiator.</p> <p>DRIVELINE Drivelines shall be a heavy duty metal tube equipped with universal joints properly sized for the application. A splined slip joint shall be provided in each driveshaft.</p> <p>STEERING Steering shall consist of a hydraulically driven power steering system with a capacity designed for the axle rating.</p> <p>For additional comfort, the steering wheel column shall have a tilt feature.</p> <p>BUMPER A one (1) piece, 10.00" high, stainless steel bumper shall be attached to the front of the frame.</p> <p>A 9.00" channel shall be mounted directly behind the bumper for additional strength.</p> <p>The bumper shall be extended 16.00" from the front face of the cab.</p> <p>TOW HOOKS Two (2) chromed steel tow hooks shall be installed under the bumper and attached to</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>the front frame members. The tow hooks shall be designed and positioned to allow up to a 6,000 pound straight horizontal pull in line with the centerline of the vehicle. The tow hooks shall not be used for lifting of the apparatus.</p> <p>GRAVEL PAN A gravel pan, constructed of bright aluminum treadplate, shall be furnished between the bumper and cab face. The gravel pan shall be properly supported from the underside to prevent flexing and vibration of the aluminum treadplate.</p> <p>CAB Type: Conventional (engine forward) Construction: Welded Steel and Fiberglass Accessories: - Tinted Glass in all Windows - Black Rubber Floor Mats - Dual Sun-Visors - Dome Light with Map Light - Fresh Air Heater and Defroster - Fiberglass Front End, Three (3) Piece Construction - Hood Mounted Chrome Grille - Long Life Halogen, Two Light System Headlights - Daytime Running Lights</p> <p>CAB INTERIOR, IHC, GRAY Gray Vinyl Upholstery</p> <p>CAB GRILLE - STATIONARY The cab grille shall be a chrome plated high impact plastic with a vertical channel design, and shall include chrome headlight bezels. The grille shall be attached to the radiator core support structure and shall not tilt with the hood.</p> <p>MIRRORS Lang Mekra 15.75" x 7.09" mirrors, with breakaway type brackets, integral convex, heated, thermostatically controlled, clearance lights, both sides remote controlled and black finish, shall be provided.</p> <p>CAB ACCESS STEPS The cab access steps shall be provided by the apparatus manufacturer. The steps shall be a two (2) step design fabricated from bright aluminum treadplate. The step assembly shall enclose the area under the cab. The fuel tank fill cap shall be exposed for</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>refueling. Access shall be provided to inspect the chassis batteries when located under the cab.</p> <p>STEP LIGHTS There shall be four (4) Ri-Tar, Model M27, clear LED step lights provided. There shall be one (1) light installed at each cab door, one (1) light per doorstep.</p> <p>The lights shall be activated when the adjacent door is opened.</p> <p>DAYTIME RUNNING LIGHTS The chassis shall be provided with daytime running lights.</p> <p>AIR CONDITIONING International Blend-Air with integral heater and defroster shall be provided.</p> <p>The system shall deliver a 12,000 BTU/hour in the air conditioning mode when tested per SAE J1484 with inlet air conditions of 80 degrees Fahrenheit dry bulb and 67 degrees Fahrenheit wet bulb.</p> <p>The system includes Hydro Fluorocarbon HFC-134A refrigerant.</p> <p>ENGINE COMPARTMENT LIGHTS Two (2) engine compartment lights shall be installed under the engine hood, of which the switches are an integral part.</p> <p>STORAGE CONSOLE There shall be a console located in the cab with room for radios and map storage. There shall be an area provided, approximately 8.50" x 21.75" for radios. There shall be three sections for map storage. Each section shall be approximately 3.00" wide x 20.00" long x 6.00" deep. The console shall be constructed out of smooth aluminum and painted black.</p> <p>SEATING CAPACITY The seating capacity in the cab shall be two (2).</p> <p>SEATING Seating inside the cab shall consist of an air-suspension driver seat and a non-suspension officer seat.</p> <p>SEAT BELT WEB LENGTH The chassis seat belt web length as supplied by the commercial chassis manufacturer shall be compliant to NFPA 14.1.3.2 and 14.1.3.3.</p> <p>SEAT BELTS All seating positions in the cab and crew cab shall have red seat belts.</p> <p>SEAT BELT MONITORING SYSTEM A seat belt monitoring system (SBMS) shall be provided. The SBMS shall be capable of monitoring up to ten (10) seat positions indicating the status of each seat position with a green or red LED indicator as follows:</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>Driver Seat:</p> <p>Seat Occupied Buckled Green</p> <p>No Occupant Unbuckled Not Illuminated</p> <p>The driver seat shall not include an occupant sensor. The display indication for the driver seat shall illuminate red any time the parking brake is released and the driver seat belt is not buckled.</p> <p>All Other Seats:</p> <p>Seat Occupied Buckled Green</p> <p>Seat Occupied Unbuckled Red</p> <p>No Occupant Buckled Red</p> <p>No Occupant Unbuckled Not Illuminated</p> <p>Alarm:</p> <p>The SBMS shall include an audible alarm that shall be activated when a red illumination condition exists and the parking brake is released, or a red illumination condition exists and the transmission is not in park.</p> <p>HELMET STORAGE, PROVIDED BY FIRE DEPARTMENT NFPA 1901, 2009 edition, section 14.1.8.4.1 requires a location for helmet storage be provided.</p> <p>There is no helmet storage on the apparatus as manufactured. The fire department shall provide a location for storage of helmets.</p> <p>PORTABLE HAND LIGHTS, PROVIDED BY FIRE DEPARTMENT NFPA 1901, 2009 edition, section 7.7.3.1 requires two portable hand lights mounted in brackets fastened to the apparatus.</p> <p>The hand lights are not on the apparatus as manufactured. The fire department shall provide and mount these hand lights.</p> <p>CAB INSTRUMENTS</p> <ul style="list-style-type: none"> - Engine Temperature Gauge and Warning Buzzer - Engine Oil Pressure Gauge and Warning Buzzer - Speedometer with Odometer - Engine Tachometer - Engine Hourmeter - Fuel Level Gauge 		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
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<p>- Voltmeter: Low voltage red warning light and audible alarm</p> <p>- Air Brake Pressure Gauge</p> <p>- Air Restriction Indicator</p> <p>- Circuit Breakers: For overload protection of electric circuits</p> <p>- Ignition Switch: Keyless type</p> <p>EMERGENCY SWITCH PANEL An emergency switch panel shall be provided in the cab.</p> <p>"DO NOT MOVE APPARATUS" INDICATOR A flashing red indicator light (located in the driving compartment) shall be illuminated automatically per the current edition of NFPA. The light shall be labeled "Do Not Move Apparatus If Light Is On".</p> <p>OPEN DOOR INDICATOR LIGHT A red "open door" indicator light shall be provided inside the cab, in clear view of the driver, to warn of an open compartment door.</p> <p>WIPER CONTROL Wiper control shall include an intermittent feature and windshield washer controls.</p> <p>VEHICLE DATA RECORDER A vehicle data recorder (VDR) shall be provided. The VDR shall be capable of reading and storing vehicle information. The VDR shall be capable of operating in a voltage range from 8VDC to 16VDC. The VDR shall not interfere with, suspend, or delay any communications that may exist on the CAN data link during the power up, initialization, runtime, or power down sequence. The VDR shall continue operation upon termination of power or at voltages below 8VDC for a minimum of 10ms.</p> <p>The information stored on the VDR can be downloaded through a USB port mounted in a convenient location determined by cab model. A CD provided with the apparatus shall include the programming to download the information from the VDR. A USB cable can be used to connect the VDR to a laptop to retrieve required information.</p> <p>The vehicle data recorder shall be capable of recording the following data via hardwired and/or CAN inputs:</p> <p>Vehicle Speed - MPH</p> <p>Acceleration - MPH/sec</p> <p>Deceleration - MPH/sec</p> <p>Engine Speed - RPM</p> <p>Engine Throttle Position - % of Full Throttle</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>ABS Event - On/Off</p> <p>Seat Occupied Status - Yes/No by Position (1-6 Seating Capacity)</p> <p>Seat Belt Buckled Status - Yes/No by Position (1-6 Seating Capacity)</p> <p>Master Optical Warning Device Switch - On/Off</p> <p>Time - 24 Hour Time</p> <p>Date - Year/Month/Day</p> <p>RADIO ANTENNA MOUNT There shall be one (1) standard 1.125", 18 thread antenna-mounting base(s) installed on the cab roof with high efficiency, low loss, coaxial cable(s) routed to the console. A weatherproof cap shall be installed on the mount.</p> <p>ELECTRICAL All 12-volt electrical equipment installed by the apparatus manufacturer shall conform to modern automotive practices. All wiring shall be high temperature crosslink type. Wiring shall be run in loom or conduit where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers shall be provided which conform to SAE Standards. Wiring shall be color, function and number coded. Function and number codes shall be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors shall be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids. Electrical wiring and equipment shall be installed utilizing the following guidelines:</p> <p>(1) All holes made in the roof shall be caulked with silicon. Rope caulk is not acceptable. Large fender washers, liberally caulked, shall be used when fastening equipment to the underside of the cab roof.</p> <p>(2) Any electrical component that is installed in an exposed area shall be mounted in a manner that shall not allow moisture to accumulate in it. Exposed area shall be defined as any location outside of the cab or body.</p> <p>(3) Electrical components designed to be removed for maintenance shall not be fastened with nuts and bolts. Metal screws shall be used in mounting these devices. Also a coil of wire shall be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work.</p> <p>(4) Corrosion preventative compound shall be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections shall require this compound in the plug to prevent corrosion and for easy separation (of the plug).</p> <p>(5) All lights that have their sockets in a weather exposed area shall have corrosion preventative compound added to the socket terminal area.</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>(6) All electrical terminals in exposed areas shall have silicon (1890) applied completely over the metal portion of the terminal. All emergency light switches shall be mounted on a separate panel installed in the cab. A master warning light switch and individual switches to be provided to allow pre-selection of emergency lights. The light switches shall be "rocker" type with an internal indicator light to show when switch is energized. All switches shall be properly identified and mounted in a removable panel for ease in servicing. Identification of the switches shall be done by either printing or etching on the switch panel. The switches and identification shall be illuminated.</p> <p>All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, shall be furnished. Rear identification lights shall be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads shall be protected from damage by installing a false bulkhead inside the rear compartments.</p> <p>An operational test shall be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.</p> <p>The results of the tests shall be recorded and provided to the purchaser at time of delivery.</p> <p>BATTERY SYSTEM A single starting battery system shall be provided consisting of three (3) 12 volt, 650 CCA, maintenance-free, group 31 batteries.</p> <p>The batteries system shall have a total of 1950 CCA with a minimum reserve capacity of 540 minutes.</p> <p>MASTER BATTERY SWITCH A master battery switch, to activate the battery system, shall be provided inside the cab within easy reach of the driver.</p> <p>The master battery disconnect switch shall be wired between the starter solenoid and the remainder of the electrical loads on the apparatus.</p> <p>A green "battery on" indicator light, visible from the driver's position, shall be provided.</p> <p>BATTERY CHARGER A Kussmaul Autocharge 1000, model 091-56-12 battery charger with internal battery saver shall be provided. A bar graph display indicating the state of charge shall be included.</p> <p>The battery saver circuit shall be capable of supplying up to three (3) amps for external loads such as handlight or auxiliary radio batteries.</p> <p>The battery charger shall be wired to the AC shoreline inlet through an AC receptacle adjacent to this battery charger.</p> <p>Battery charger shall be located in the front left body compartment, mounted as high as</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>possible.</p> <p>The battery charger indicator shall be located on the driver's seat riser.</p> <p>KUSSMAUL AUTO EJECT FOR SHORELINE An auto eject shoreline shall be provided to operate the dedicated 120-volt circuits on the truck without the use of a generator.</p> <p>It shall be provided with a NEMA 5-15, 120 volt, 15-amp, straight blade Kussmaul auto eject plug and a red weatherproof cover. The cover is spring loaded to close, preventing water from entering when the shoreline is not connected.</p> <p>A solenoid wired to the vehicle's starter is energized when the engine is started. This instantaneously drives the plug from the receptacle.</p> <p>The shoreline shall be connected to the battery charging system.</p> <p>A mating connector body shall also be supplied with the loose equipment.</p> <p>The shoreline receptacle shall be located on the driver side of pump panel.</p> <p>ALTERNATOR The alternator shall be a 12V, 320 Amp, Leece Neville pad mount alternator.</p> <p>ELECTRONIC LOAD MANAGEMENT A Kussmaul Load Manager 2 shall be provided on the apparatus. The device is an electronic load management (ELM) system that monitors the vehicles 12-volt electrical system, and automatically reduces the electrical load in the event of a low voltage condition and by doing so, ensures the integrity of the electrical system.</p> <p>The ELM shall monitor the vehicle's voltage while at the scene (parking brake applied). It shall sequentially shut down individual electrical loads when the system voltage drops below a preset value. Two (2) separate electrical loads shall be controlled by the load manager. The ELM shall sequentially re-energize electrical loads as the system voltage recovers.</p> <p>EXTERIOR LIGHTING Exterior lighting shall meet or exceed Federal Department of Transportation, Federal Motor Vehicle Safety Standards and National Fire Protection Association requirements in effect at time of proposal.</p> <p>Front headlights shall be halogen type and comply to all FMVSS requirements.</p> <p>Five (5) clearance and marker lights shall be installed across the leading edge of the cab.</p> <p>REAR ID/MARKER DOT LIGHTING The three (3) identification lights located at the rear shall be installed per the following:</p> <ul style="list-style-type: none"> - As close as practical to the vertical Centerline. 		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<ul style="list-style-type: none"> - Centers spaced not less than six (6) inches or more than twelve (12) inches apart. - Red in color. - All at the same height. <p>The outside clearance lights located at the rear shall be installed per the following:</p> <ul style="list-style-type: none"> - To indicate the overall width of the vehicle. - At least one (1) each side of the vertical Centerline. - All at the same height. - As near the top as practical. - To be visible from the rear and the side. <p>Per FMVSS 108 and CMVSS 108 requirements.</p> <p>REAR FMVSS LIGHTING The rear FMVSS lights installed on the chassis by the chassis manufacturer shall be relocated to the rear of the apparatus body. These lights shall serve as the "stop", "tail" and "directional" lights.</p> <p>BACK-UP ALARM A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse shall be provided. The device shall sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.</p> <p>PERIMETER SCENE LIGHTS, CAB There shall be a Truck-Lite, model 60, grommet mount weatherproof light provided for each cab door. Lighting shall be designed to provide illumination on areas under the driver and officer riding area exits, which shall be activated automatically when the exit doors are opened and by the same means as the body perimeter lights.</p> <p>The lighting shall be capable of providing illumination at a minimum level of two (2) foot-candles on ground areas within 30.00" of the edge of the apparatus in areas which personnel climb in or out of the apparatus or descend from the apparatus to the ground level.</p> <p>SCENE LIGHTS There shall be one (1) pair of Whelen®, Model 600 rectangular halogen scene lights installed at the rear of the truck.</p> <p>These lights shall be mounted on a 13 degree angle.</p> <p>They shall be controlled by a switch in the cab.</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>WATER TANK The tank shall have a minimum capacity of 2100 U.S. gallons. The tank shall be of a specified configuration and designed to be completely independent of the compartment and/or fender modules. When placed on the chassis, the tank shall meet or exceed all federal DOT regulations regarding weight distribution, axle loading and horizontal and vertical center of gravity locations. The tank manufacturer shall mark the tank with the manufacturer's name, date of manufacture, and serial number. The tank manufacturer shall furnish notice that indicates proof of warranty.</p> <p>The tank shall be constructed using a virgin polypropylene sheet with a minimum thickness of .50". This material shall be a high impact copolymer (HIC), non-corrosive, stress relieved thermoplastic, UV stabilized for maximum protection.</p> <p>All joints and seams shall be nitrogen welded and tested for maximum strength and integrity. All swash partitions shall interlock and be welded to each other as well as to the walls of the tank.</p> <p>The tank shall incorporate a manual fill tower with a 6.00" combination vent/overflow pipe. The fill tower shall be constructed of polypropylene and shall be large enough to provide filling by means of a conventional 2.50" hose nozzle. The tower shall be located near the center of the tank to minimize water surge during vehicle operation. The tower shall have a removable polypropylene screen and a polypropylene hinged cover. The vent/overflow pipe shall run through the tank and exit through the floor of the tank behind the rear axle.</p> <p>The sides of the tank shall be painted to match the remainder of the unit.</p> <p>The tank and hose bed (if provided) shall be removable as a unit and shall be a separate component from the body compartmentation.</p> <p>PORTABLE TANK COMPARTMENT A portable tank compartment, integral with the tank construction, shall be installed through the center of the water tank. There shall be a horizontally hinged, aluminum treadplate door at the rear of the compartment to allow for removal of the portable tank. The compartment shall be designed to carry a 2500 gallon Fol-Da-Tank brand portable tank.</p> <p>WATER TANK RESTRAINT A heavy-duty water tank restraint shall be provided to keep the water tank in position. This requirement is especially critical when the tank is empty and the apparatus is traveling over rough terrain.</p> <p>TANK OVERFLOW/VENT A 6.00" tube shall be installed through the shell of the tank. This tube shall function as an overflow to discharge water to the ground once the tank is filled to capacity. It shall also function as a vent to allow air to enter the tank when water is being dumped or pumped from the tank.</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>The tube shall be positioned to drain at the bottom of the truck near the center, behind the rear axle.</p> <p>REAR TANK FILL A 2.50" gated external tank fill shall be installed and properly labeled at the rear of the water tank, located passenger's side.</p> <p>Piping, for the fill, shall be routed through the rear wall of the tank and include a flow deflector to break up the stream of water entering the water tank.</p> <p>A 2.50" full flow ball valve with 2.50" piping and a 2.50" (F)NST chrome swivel shall be located at the inlet.</p> <p>A 2.50" chrome plated 30 degree elbow and plug with VLH automatic pressure relieving thread technology shall be provided for the tank fill.</p> <p>REAR TANK DUMP VALVE One (1) 10.00" butterfly style tank dump valve shall be installed at the rear of the tank. The valve shall be actuated manually at the valve.</p> <p>A 90 degree dump chute shall be provided. The chute shall rotate from the driver's side to the passenger side and shall be capable of dumping water from both sides and the rear. A manual extension chute shall be incorporated into this design which shall allow the chute to extend past the side of the body for dumping.</p> <p>This dump system shall be designed so that it shall not need to be removed for storage. The design shall include a chute retaining pin which shall allow it to be stowed in the driver's or passenger's side storage position while in transport.</p> <p>REAR BUMPER An aluminum channel shall be installed at the rear for a bumper.</p> <p>REAR WALL, SMOOTH ALUMINUM The rear wall shall be smooth aluminum.</p> <p>TOW EYES Two (2) rear painted tow eyes shall be located at the rear of the apparatus and shall be mounted directly to the chassis frame rails. The inner and outer edges of the tow eyes shall have a radius.</p> <p>COMPARTMENTATION Compartments shall be fabricated of aluminum treadplate. Drip protection shall be provided above the doors by means of an aluminum extrusion designed into the door opening.</p> <p>All screws and bolts which protrude into a compartment shall have acorn nuts on the ends to prevent injury.</p> <p>AGGRESSIVE WALKING SURFACE All exterior surfaces designated as stepping, standing, and walking areas shall comply</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>with the required average slip resistance of the current NFPA standards.</p> <p>COMPARTMENTATION, DRIVER'S SIDE One (1) compartment constructed of bright aluminum treadplate shall be provided in the area ahead of the rear wheels. The interior dimensions of the compartment shall be 53.75" wide x 27.63" high x 26.25" deep. The clear door opening of the compartment shall be 51.50" wide x 26.50" high.</p> <p>HARD SUCTION HOSE STORAGE A storage area for one (1) hard suction hose shall be provided. This storage area shall be integral with the water tank and shall be accessible from the rear on the driver's side.</p> <p>This storage area shall be a poly tube with dimensions approximately 8.00" (inside diameter) x 129.00" in length. This size compartment shall be able to contain up to a standard 5" hard suction hose. Larger hoses or oversized couplings shall not fit in this compartment.</p> <p>A square box at the rear of the storage tube with dimensions of approximately 12.00" x 12.00" square x 3.00" deep shall be provided for accommodating the handles on the female end of the hose.</p> <p>An aluminum treadplate door shall be provided for retaining the hose.</p> <p>COMPARTMENTATION, PASSENGER'S SIDE One (1) compartment constructed of bright aluminum treadplate shall be provided in the area ahead of the rear wheels. The interior dimensions of the compartment shall be 53.75" wide x 27.63" high x 26.25" deep. The clear door opening of the compartment shall be 51.50" wide x 26.50" high.</p> <p>HARD SUCTION HOSE STORAGE A storage area for one (1) hard suction hose shall be provided. This storage area shall be integral with the water tank and shall be accessible from the rear on the passenger's side.</p> <p>This storage area shall be a poly tube with dimensions approximately 8.00" (inside diameter) x 129.00" in length. This size compartment shall be able to contain up to a standard 5" hard suction hose. Larger hoses or oversized couplings shall not fit in this compartment.</p> <p>A square box at the rear of the storage tube with dimensions of approximately 12.00" x 12.00" square x 3.00" deep shall be provided for accommodating the handles on the female end of the hose.</p> <p>An aluminum treadplate door shall be provided for retaining the hose.</p> <p>DOORS, SIDE COMPARTMENT All hinged compartment doors shall be double panel aluminum construction. The exterior surface of the door shall be bright finish aluminum treadplate, and the pan shall</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>be smooth, unpainted aluminum.</p> <p>The door opening shall have a closed cell rubber gasket to ensure a weather resisting compartment.</p> <p>All compartment doors shall have polished stainless steel continuous hinge with a pin diameter of .1875".</p> <p>Doors shall be latched with recessed, polished stainless steel D ring handles and Eberhard 106 latch.</p> <p>COMPARTMENT LIGHTING 6.00" diameter Truck-Lite, model 79384, light/s shall be provided in each enclosed compartment. Each light shall have a number 1076 one filament, two wire bulb.</p> <p>Opening the compartment door shall automatically turn compartment lighting on.</p> <p>BODY FENDERS A fender constructed from bright aluminum treadplate shall be provided over the rear wheels on each side of the truck.</p> <p>HARD SUCTION HOSE Hard suction hose shall not be required.</p> <p>PUMP A power takeoff driven Darley HM single (1) stage pump with a rating of 500 gallons per minute at 150 psi shall be provided.</p> <p>The completed pump system shall achieve the following performance ratings:</p> <ul style="list-style-type: none"> 500 GPM @ 150 psi 500 GPM @ 165 psi 350 GPM @ 200 psi 250 GPM @ 250 psi <p>The pump shall be placed in gear from the chassis cab. The pump shift position shall be clearly labeled.</p> <p>The pump casing shall be a vertically split design constructed of alloy cast iron. The volute shall be designed to hydraulically neutralize radial thrust.</p> <p>The impeller shall be constructed of high strength bronze alloy and shall be accurately balanced and splined to the pump shaft for precision fit and durability.</p> <p>The pump shaft shall be stainless steel with a ceramic hard coating under the shaft.</p> <p>MECHANICAL SEALS Mechanical seals shall be provided for the pump.</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>PUMP TRANSMISSION A two gear transmission with helical gears and a 1.375" diameter splined shaft shall be provided.</p> <p>The water pump shall be driven by a hot shift PTO located on the chassis transmission.</p> <p>An interlock system shall be provided to ensure that the pump drive system components are properly engaged so that the apparatus can be safely operated. Interlock system shall be designed to allow the truck to be in motion while pumping.</p> <p>PUMP SHIFT A pump shift shall be provided within easy reach of the driver for engagement of the PTO driven pump. The shift shall include the indicator lights as mandated by NFPA. The pump shift control shall be illuminated to meet NFPA requirements.</p> <p>AUXILIARY COOLING SYSTEM A supplementary heat exchange cooling system shall be provided to allow the use of water from the discharge side of the pump for cooling the engine water. The pump casting shall be designed to be used as a heat exchanger.</p> <p>INTAKE RELIEF VALVE A Task Force Tips relief valve shall be installed on the suction side of the pump preset at 125 psig.</p> <p>Relief valve shall have a working range of 50 psig to 200 psig.</p> <p>Outlet shall terminate below the frameroils with a 2.50" National Standard hose thread adapter and shall have a "do not cap" warning tag.</p> <p>PRESSURE CONTROLLER, AUTO CONTROL An all electric pressure governor shall be provided which is capable of automatically maintaining a desired preset discharge pressure, within a range of 0 to 400 psi. This system shall not require a mechanical drive, oil, or air supply for a means of control. When operating in the pressure control mode, the system shall automatically maintain the discharge pressure set by the operator (within the discharge capabilities of the pump and water supply) regardless of flow, within the discharge capacities of the water pump and water supply.</p> <p>A pressure transducer shall be installed in the water discharge manifold on the pump. The transducer continuously monitors pump pressure sending a signal to the Electronic Control Module (ECM) which modulates fueling in order to maintain a set pressure, regardless of pump flow rate or engine speed (within engine operating capacities). There are no user serviceable items and no maintenance required on the Pressure Sensor Governor (PSG) system. The PSG system also eliminates the need for a discharge pressure relief valve.</p> <p>The PSG can be used in two (2) modes of operation, rpm mode and pressure modes.</p> <p>In the rpm mode, the governor can be activated after vehicle parking brake has been</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>set. The rpm mode is similar in operation to PTO operation. When in this mode, the governor shall maintain the set engine speed, regardless of engine load (within engine operation capabilities). When the PSG system is first activated, the governor automatically operates in the rpm mode. When in the rpm mode, each time the increase switch is pushed, the engine speed shall increase by 25 rpm's. Each time the decrease switch is pushed, the engine speed shall decrease by 25 rpm's. If the increase or decrease switch is pushed more than a 1/2 second the engine speed shall ramp at a rate of 50 rpm.</p> <p>In the pressure mode, the governor system can only operate after the fire pump has been engaged and the vehicle parking brake has been set. When in the pressure mode, the PSG monitors the pump pressure and varies engine speed to maintain a precise pump pressure.</p> <p>A preset also allows a predetermined pressure or rpm to be set.</p> <p>A pump cavitation protection feature is also provided which shall return the engine to idle should the pump cavitate. Cavitation is sensed by the combination of pump pressure below 30 psi and engine speed above 2000 rpm for more than five (5) seconds.</p> <p>The Electronic Auto Control (EAC) display panel shall be located at the pump operator's panel. The EAC cooperates the PSG and displays engine temperature, oil pressure, engine rpm, pump intake, pump discharge, and voltage.</p> <p>PRIMING PUMP Priming pump shall be a positive displacement vane type, electrically driven, and conforming to standards outlined in NFPA pamphlet #1901.</p> <p>One (1) priming control shall open the priming valve and start the priming motor.</p> <p>Primer shall be environmentally safe and self lubricating.</p> <p>PUMP MANUALS Two (2) pump manuals from the pump manufacturer shall be furnished with the apparatus. Manuals shall cover pump operation, maintenance, and parts.</p> <p>PLUMBING All inlet and outlet plumbing, 3.00" and smaller, shall be plumbed with either stainless steel pipe or synthetic rubber hose reinforced with high-tensile polyester braid. Small diameter secondary plumbing such as drain lines shall be stainless steel, brass or hose.</p> <p>Where vibration or chassis flexing may damage or loosen piping or where a coupling is required for servicing, the piping shall be equipped with victaulic or rubber couplings.</p> <p>Plumbing manifold bodies shall be ductile cast iron or stainless steel.</p> <p>All lines to drain through either a master drain valve or shall be equipped with individual drain valves. All individual drain lines for discharges shall be extended with</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>a hose to drain below the chassis frame.</p> <p>All water carrying gauge lines shall be of flexible polypropylene tubing.</p> <p>MAIN PUMP INLETS A 4.00" pump manifold inlet shall be provided on the driver's side of the vehicle. The suction inlet shall include removable die cast zinc screens that are designed to provide cathodic protection for the pump, thus reducing corrosion in the pump.</p> <p>The main pump inlets shall have National Standard Threads with a rocker lug chrome plated cap.</p> <p>The cap shall be the VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected. (No exception)</p> <p>VALVES All ball valves shall be Akron Brass in-line valves. The Akron valves shall be the 8000 series heavy-duty style with a stainless steel ball and a simple two-seat design. No lubrication or regular maintenance is required on the valve.</p> <p>Valves shall have a ten (10) year warranty.</p> <p>INLET (Left side) At the pump operator's position shall be one (1) - 2.50" auxiliary suction, terminating in 2.50" National Standard Hose Thread. The auxiliary suction shall be provided with a strainer, chrome swivel and plug.</p> <p>INLET BLEEDER VALVE A .75" bleeder valve shall be provided for the side gated inlet. The valves shall be a push/pull type knob for the control easily accessible.</p> <p>TANK TO PUMP The tank shall be connected to the intake side of the pump with heavy-duty piping and a 4.00" butterfly valve with a handwheel control remotely located at the operator's position. The tank to pump line shall run from the pump to the tank sump. A rubber coupling shall be included in this line to prevent damage from vibration or chassis flexing.</p> <p>A check valve shall be provided to prevent the possibility of "back filling" the water tank.</p> <p>TANK REFILL A 2.00" combination tank refill and pump bypass line shall be provided using a quarter-turn full flow ball valve, controlled from the pump operator's panel.</p> <p>DISCHARGE OUTLETS (Left Side) There shall be two (2) discharge outlets with a 2.00" valve on the left side of the apparatus, terminating with a male 2.50" National Standard hose thread adapter. The valve shall be located on the plumbing within easy reach.</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>FRONT BUMPER TURRET DISCHARGE There shall be a Task Force Tips Tornado front bumper turret piped to the passenger's side of the front bumper extension. The monitor shall be equipped with a disconnect to allow the monitor to be easily removed to tilt the cab.</p> <p>An automatic 100-500 GPM nozzle TFT model MDERP12A shall be provided.</p> <p>The turret shall have a horizontal rotation of 180 degrees and operate from 90 degrees above to 60 degrees below horizontal. The horizontal rotation and automatic oscillation shall be driven by a 12 volt DC direct drive motor/actuator.</p> <p>The turret shall be remotely controlled from a control box located in the cab, between the driver and passenger. A joy stick control shall be provided for water on/off, monitor left/right, monitor up/down, and solid or disperse pattern. A position indicator, TFT model Y4E-Disp, shall be provided near the joystick control.</p> <p>Plumbing shall consist of 2.00" piping and flexible hose according to the design requirements of the chassis.</p> <p>An electrically controlled 2.00" full flow ball valve shall be used.</p> <p>Automatic drains shall be provided at all low points of piping.</p> <p>DISCHARGE CAPS Chrome plated, rocker lug, caps with chains shall be furnished for all side discharge outlets.</p> <p>The caps shall be the VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected. (No exception)</p> <p>OUTLET BLEEDER A .75" bleeder valve with "push/pull" control shall be provided for each outlet 1.50" or larger. Automatic drain valves may be provided with some outlets if deemed appropriate for the application.</p> <p>DISCHARGE OUTLET CONTROLS The discharge outlets shall incorporate a quarter-turn ball valve with the control located at the valve. The valve operating mechanism (handle) shall indicate the position (open/closed) of the valve.</p> <p>STORAGE BOX A hose storage box to accommodate four (4) 100' lengths of rolled 2.50" hose shall be provided.</p> <p>Construction shall consist of aluminum treadplate with a retainer to hold the hose in place.</p> <p>The hose storage box shall be located on the passenger's side, forward of the equipment compartment.</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>CROSSLAY HOSE BEDS Two crosslays with 1.50" outlets shall be provided. Each bed to be capable of carrying 200 feet of 1.75" double jacketed hose and shall be plumbed with 2.00" i.d. pipe and gated with a 2.00" quarter turn ball valve.</p> <p>The crosslay controls shall be at the pump operator's position.</p> <p>A removable tray shall be provided for each crosslay to allow for easy repacking of hose.</p> <p>CROSSLAY/DEADLAY HOSE RESTRAINT Elastic netting shall be provided across the top and ends of two (2) crosslay/deadlay opening(s) to secure the hose during travel. The netting shall be permanently attached at the top center of the crosslay/deadlay bed and removable on each end.</p> <p>PUMP AND GAUGE PANEL The pump and gauge panels shall be constructed stainless steel.</p> <p>PUMP ACCESS The pump and plumbing shall be accessible from the driver's side of the truck. No panels shall need to be removed.</p> <p>Engine monitoring graduated LED indicators shall be incorporated with the pressure controller.</p> <p>Digital readouts for the Master Pump Pressure and Intake are included with the FRC INControl.</p> <p>PRESSURE GAUGES The individual "line" pressure gauges for the discharges shall be interlube filled and manufactured by Class 1.</p> <p>They shall be a minimum of 2.00" in diameter and shall have white faces with black lettering.</p> <p>Gauge construction shall include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut.</p> <p>Gauges shall have a pressure range of 30"-0-400#.</p> <p>The individual pressure gauge shall be installed as close to the outlet control as practical.</p> <p>This gauge shall include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.</p> <p>WATER LEVEL GAUGE An electronic water level gauge shall be provided on the operator's panel that registers water level by means of five colored LED lights. The lights shall be durable, ultra-bright five LED design viewable through 180 degrees. The water level indicators shall</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>be as follows:</p> <ul style="list-style-type: none"> - 100% = Green - 75% = Yellow - 50% = Yellow - 25% = Yellow - Refill = Red <p>The light shall flash when the level drops below the given level indicator to provide an eighth of a tank indication. To further alert the pump operator, the lights shall flash sequentially when the water tank is empty.</p> <p>The level measurement shall be based on the sensing of head pressure of the fluid in the tank.</p> <p>The display shall be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design shall provide complete protection from water and environmental elements. An industrial pressure transducer shall be mounted to the outside of the tank. The field calibratable display measures head pressure to accurately show the tank level.</p> <p>LIGHTING, PUMP CONTROLS</p> <p>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. External illumination shall be a minimum of five (5) foot-candles on the face of the device. Internal illumination shall be a minimum of four (4) footlamberts.</p> <p>Lights shall be installed above the controls and gauges in a manner that shall properly illuminate them. The lights are to be actuated with the parking brake.</p> <p>AIR HORN SYSTEM</p> <p>Two (2) Grover air horns shall be provided and located one (1) each side of the engine. The horn system shall be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve shall be installed in-line to prevent the loss of air, in the air brake system.</p> <p>AIR HORN CONTROL</p> <p>A lanyard rope pull control shall be provided within reach of the driver.</p> <p>ELECTRONIC SIREN</p> <p>A "Code 3", model 3692, electronic siren with noise canceling microphone shall be provided.</p> <p>Siren head shall be located in an accessible under dash position.</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>Siren shall be actuated by a foot switch on the officer's side and by the horn button in the steering wheel. The driver shall have the option to control the siren or the chassis horns from the horn button by means of a selector switch.</p> <p>SPEAKER There shall be one (1) speaker, Code-3 Model PB100C with chrome finish provided. Connection shall be connected to the siren amplifier.</p> <p>The speaker(s) shall be recessed in the front bumper on the driver's side.</p> <p>CAB ROOF LIGHTBAR There shall be one (1) 56.00" Whelen, Model Justice LED lightbar mounted on a bracket at the front of the tank.</p> <p>This lightbar shall include the following:</p> <ul style="list-style-type: none"> Four (4) red flashing forward facing LED modules. Two (2) red flashing front corner LED modules. Two (2) red flashing rear corner LED modules. <p>The lens color shall be clear.</p> <p>There shall be one (1) switch, located in the cab on the switch panel, to control this lightbar.</p> <p>LIGHTBAR MOUNTING A bracket shall be supplied for mounting the lightbar. The bracket shall be fastened to the top of the water tank and thus prevent the need to remove the chassis headliner.</p> <p>WARNING LIGHTS A pair of surface mounted Whelen model RSR02ZCR, LIN3 Super LED flashing lights shall be provided on the grille.</p> <p>The color of these lights shall be red.</p> <p>A switch shall be provided inside the cab on the switch panel for actuation.</p> <p>These lights shall be installed with a plastic, chrome-plated flange.</p> <p>SIDE ZONE LOWER LIGHTING Four (4) Whelen model RS*02ZCR, flashing LIN3 Super LED warning lights shall be located in the following positions:</p> <ul style="list-style-type: none"> Two (2) lights, one (1) each side on the bumper extension. The color of these lights shall be red. Two (2) lights, above the rear wheels. 		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>The color of these lights shall be red each rear fender.</p> <p>The above four (4) lights shall be required to meet or exceed the lower level optical warning and optical power requirements of NFPA.</p> <p>These lights shall be controlled by a lighted switch on the cab instrument panel.</p> <p>These lights shall be installed in a plastic, chrome-plated flange.</p> <p>REAR ZONE LOWER LIGHTING Two (2) Whelen, Model RS*02ZCR, flashing LIN3 Super LED lights shall be located at the rear of the apparatus.</p> <p>The color of the lights shall be red.</p> <p>One (1) switch located in the cab on the switch panel shall control these lights.</p> <p>These lights shall be installed in a plastic, chrome-plated flange</p> <p>WARNING LIGHTS (Rear of Truck) Two (2) Whelen, Model: RB6T*P, warning lights shall be provided at the rear of the truck, located one (1) on each side.</p> <p>One (1) switch located in the cab on the switch panel shall control these lights.</p> <p>The color of the lights shall be both domes red.</p> <p>The rear warning lights shall be mounted on aluminum treadplate brackets which shall also support the clearance/marker lights.</p> <p>LOOSE EQUIPMENT The following equipment shall be furnished with the completed unit:</p> <ul style="list-style-type: none"> - One (1) bag of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit <p>NFPA REQUIRED LOOSE EQUIPMENT, PROVIDED BY FIRE DEPARTMENT The following loose equipment as outlined in NFPA 1901, 2009 edition, section 7.7.2.1, 7.7.2.2, and 7.7.3.1 shall be provided by the fire department. All loose equipment shall be installed on the apparatus before placed in emergency service, unless the fire department waives NFPA section 4.21.</p> <ul style="list-style-type: none"> - 200 ft (60 m) of 2½" (65 mm) or larger fire hose. - 400 ft (120 m) of 1½" (38 mm), 1¾" (45 mm), or 2" (52 mm) fire hose (if equipped with a fire pump). - Two (2) handline nozzles, 95 gpm (360 L/min) minimum (if equipped with a fire pump). - One (1) SCBA complying with NFPA 1981, <i>Standard on Open-Circuit Self-Contained Breathing Apparatus for Fire and Emergency Services</i>, for each assigned seating 		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>position, but not fewer than two (2), mounted in brackets fastened to the apparatus or stored in containers supplied by the SCBA manufacturer.</p> <ul style="list-style-type: none"> - One (1) spare SCBA cylinder for each SCBA carried, each mounted in a bracket fastened to the apparatus or stored in a specially designed storage space(s). - One (1) first aid kit. - Two (2) combination spanner wrenches mounted in a bracket(s) fastened to the apparatus. - One (1) hydrant wrench mounted in a bracket fastened to the apparatus. - One (1) double female adapter, sized to fit 2½" (65 mm) or larger fire hose, mounted in a bracket fastened to the apparatus. - One (1) double male adapter, sized to fit 2½" (65 mm) or larger fire hose, mounted in a bracket fastened to the apparatus. - One (1) rubber mallet, for use on suction hose connections, mounted in a bracket fastened to the apparatus (if equipped with a fire pump). - One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 207, <i>Standard for High Visibility Public Safety Vests</i>, and have a five-point breakaway feature that includes two at the shoulders, two at the sides, and one at the front. - Five (5) fluorescent orange traffic cones not less than 28" (711 mm) in height, each equipped with a 6" (152 mm) retro-reflective white band no more than 4" (152 mm) from the top of the cone, and an additional 4" (102 mm) retro-reflective white band 2" (51 mm) below the 6" (152 mm) band. - Five (5) illuminated warning devices such as highway flares, unless the five (5) fluorescent orange traffic cones have illuminating capabilities. - One automatic external defibrillator (AED). - If none of the pump intakes are valved, a hose appliance that is equipped with one or more gated intakes with female swivel connection(s) compatible with the supply hose used on one side and a swivel connection with pump intake threads on the other side shall be carried. Any intake connection larger than 3 in. (75 mm) shall include a pressure relief device that meets the requirements of 16.6.6 (if equipped with pump). - If the apparatus does not have a 2½" National Hose (NH) intake, an adapter from 2½" NH female to a pump intake shall be carried, mounted in a bracket fastened to the apparatus if not already mounted directly to the intake. - If the supply hose carried has other than 2½" National Hose (NH) threads, adapters shall be carried to allow feeding the supply hose from a 2½" NH thread male discharge and to allow the hose to connect to a 2½" NH female intake, mounted in brackets 		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>fastened to the apparatus if not already mounted directly to the discharge or intake.</p> <p>SOFT SUCTION HOSE, PROVIDED BY FIRE DEPARTMENT NFPA 1901, 2009 edition, section 7.6 requires a minimum of 20 ft of suction hose or 15 ft of supply hose.</p> <p>Hose is not on the apparatus as manufactured. The fire department shall provide suction or supply hose.</p> <p>DRY CHEMICAL EXTINGUISHER PROVIDED BY FIRE DEPARTMENT NFPA 1901, 2009 edition, section 7.7.3.1 requires one (1) approved dry chemical portable fire extinguisher with a minimum 80-B:C rating mounted in a bracket fastened to the apparatus.</p> <p>The extinguisher is not on the apparatus as manufactured. The fire department shall provide and mount the extinguisher.</p> <p>WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT NFPA 1901, 2009 edition, section 7.7.3.1 requires one (1) 2.5 gallon or larger water extinguisher mounted in a bracket fastened to the apparatus.</p> <p>The extinguisher is not on the apparatus as manufactured. The fire department shall provide and mount the extinguisher.</p> <p>AXE, FLATHEAD, PROVIDED BY FIRE DEPARTMENT NFPA 1901, 2009 edition, Section 7.7.3.1 requires one (1) flathead axe mounted in a bracket fastened to the apparatus.</p> <p>The axe is not on the apparatus as manufactured. The fire department shall provide and mount the axe.</p> <p>COMMERCIAL CHASSIS REPAINT In order to assure a perfect match between the chassis cab and the rest of the apparatus, or to provide the specified color not typically available from a commercial chassis manufacturer, the chassis cab shall be repainted by the apparatus manufacturer.</p> <p>Since it is not practical to repaint certain areas of the cab such as the fire wall, radiator core support, or bottom of the cab, the best results shall be obtained by ordering the commercial chassis painted a neutral color.</p> <p>PAINT The exterior custom body painting finishing process as follows:</p> <p>Manual Surface Preparation - All exposed metal surfaces on the custom body shall be thoroughly cleaned and prepared for painting. Surfaces that shall not be painted include all chrome plated, stainless steel, anodized aluminum and bright aluminum treadplate. Each imperfection on the exterior metal surface shall be removed or filled and then sanded smooth for a smooth appearance. All seams shall be sealed before painting.</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>Chemical Cleaning and Treatment - The metal surfaces shall be properly cleaned using an acid etching system. Surfaces are chemically cleaned to remove all dirt, oil, grease and metal oxides to ensure the subsequent coatings bond well. An ultra pure water final rinse shall be applied to all metal surfaces, excluding undercarriage components, at the conclusion of the metal treatment process.</p> <p>Sealer Primer Coat - A two (2) component sealer primer coat shall be applied.</p> <p>Topcoat Paint - Urethane base coat shall be applied to opacity for correct color matching.</p> <p>Clearcoat - Two (2) coats of an automotive grade two (2) component urethane shall be applied. Lap style doors shall be clear coated to match the body. Roll-up doors shall not be clear coated and the standard roll-up door warranty shall apply.</p> <p>All removable items such as brackets, compartment doors, door hinges, trim, etc. shall be removed and painted separately to insure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly shall be finish painted before assembly.</p> <p>To ensure a perfect color match between the body and chassis, the apparatus manufacturer shall also repaint the commercial chassis. The apparatus shall be painted #90.</p> <p>Prior to reassembly and reinstallation of lights, handrails, door hardware and any miscellaneous body items, an isolation tape or gasket material must be used to prevent damage to the finish painted surfaces (no exceptions). A nylon washer shall be installed under each acorn nut or metal screw that is fastened directly to a painted body surface.</p> <p><u>PAINT - ENVIRONMENTAL IMPACT</u></p> <p>Contractor shall meet or exceed all current State (his) regulations concerning paint operations. Pollution control shall include measures to protect the atmosphere, water and soil. Controls shall include the following conditions:</p> <ul style="list-style-type: none"> - Topcoats and primers must be chrome and lead free. - Metal treatment chemicals must be chrome free. The wastewater generated in the metal treatment process must be treated to remove any other heavy metals. - Particulate emissions from painting operations must be collected by a dry filter or water wash process. - Solvents used in clean-up operations must be collected, sent off-site for distillation and returned for reuse. <p>Additionally, the finished apparatus shall not be manufactured with or contain products that have ozone depleting substances. Contractor shall, upon demand, present evidence that his manufacturing facility meets the above conditions and that it is in compliance</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>with his State EPA rules and regulations.</p> <p>PAINT CHASSIS FRAME ASSEMBLY The chassis frame assembly shall be painted black by the chassis manufacturer. It shall remain the commercial grade finish as provided.</p> <p>COMPARTMENT INTERIOR FINISH The interior of the body compartments shall be left unpainted and have the natural finish.</p> <p>REFLECTIVE BAND A 10.00" white reflective band shall be provided across the front of the vehicle and along the sides of the body.</p> <p>The reflective vinyl band shall be provided across the front bumper.</p> <p>CHEVRON STRIPING, REAR There shall be alternating chevron striping located on the rear-facing vertical surface of the apparatus.</p> <p>The colors shall be red and fluorescent yellow green diamond grade.</p> <p>Each stripe shall be 6.00" in width.</p> <p>This shall meet the requirements of NFPA 1901, 2009 edition, which states that at least 50% of the rear surface shall be covered with chevron striping.</p> <p>REFLECTIVE STRIPE, CAB DOORS A white reflective stripe shall be provided on the interior of each cab door.</p> <p>This stripe shall be a minimum of 96.00 square inches and shall meet the NFPA 1901 requirement.</p> <p>LETTERING The lettering shall be totally encapsulated between two (2) layers of clear vinyl.</p> <p>LETTERING Twenty-one (21) to forty (40) genuine gold leaf lettering, 3.00" high, with outline and shade shall be provided.</p> <p>CD MANUAL, BODY PARTS ONLY A custom parts manual for the factory installed parts only shall be provided in CD format with the completed unit.</p> <p>The manual shall contain the following:</p> <ul style="list-style-type: none"> - Job number - Part numbers with full descriptions - Table of contents 		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>- Parts section sorted in functional groups reflecting a major system, component, or assembly</p> <p>- Parts section sorted in Alphabetical order</p> <p>- Instructions on how to locate parts</p> <p>The manual shall be specifically written for the body model being purchased. It shall not be a generic manual for a multitude of different bodies.</p> <p>SERVICE PARTS INTERNET SITE The service parts information included in this manual are also available on the factory website. The website offers additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.</p> <p>MANUALS, SERVICE A CD format service manual supplement containing parts and service information on factory installed components shall be provided with the completed unit.</p> <p>The manual shall be specifically written for the unit being purchased. It shall not be a generic manual for a multitude of different units.</p> <p>MANUAL, CHASSIS OPERATION One (1) chassis operation (manufacturer’s standard) shall be provided with the completed unit.</p> <p>ONE (1) YEAR MATERIAL AND WORKMANSHIP Each new piece of apparatus shall be provided with a minimum one (1) year basic apparatus material and workmanship limited warranty. The warranty shall cover such portions of the apparatus built by the manufacturer as being free from defects in material and workmanship that would arise under normal use and service.</p> <p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p> <p>CHASSIS WARRANTY The basis chassis warranty shall be for a total of one (1) year/unlimited miles.</p> <p>TEN (10) YEAR PRO-RATED PAINT AND CORROSION Each new piece of apparatus shall be provided with a ten (10) year pro-rated paint and corrosion limited warranty on the apparatus cab. The warranty shall cover painted exterior surfaces of the body to be free from blistering, peeling, corrosion, or any other adhesion defect caused by defective manufacturing methods or paint material selection that would arise under normal use and service.</p> <p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>TRANSMISSION WARRANTY The transmission shall have a five (5) year/unlimited mileage warranty covering 100 percent parts and labor. The warranty to be provided by Allison Transmission and not apparatus builder.</p> <p>TEN (10) YEAR STRUCTURAL INTEGRITY Each new piece of apparatus shall be provided with a ten (10) year material and workmanship limited warranty on the apparatus body. The warranty shall cover such portions of the apparatus built by the manufacturer as being free from defects in material and workmanship that would arise under normal use and service.</p> <p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p> <p>PUMP WARRANTY A Darley six (6) year warranty on parts and three (3) year warranty on labor shall be provided for the pump.</p> <p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p> <p>PUMP PLUMBING WARRANTY The stainless steel plumbing components and ancillary brass fittings used in the construction of the water/foam plumbing system shall be warranted for a period of ten (10) years or 100,000 miles. This covers structural failures caused by defective design or workmanship, or perforation caused by corrosion, provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original purchaser for a period of ten years from the date of delivery. A copy of the warranty shall be submitted with the bid. (No exception)</p> <p>LIFETIME MATERIAL AND WORKMANSHIP The UPF poly water tank shall be provided with a lifetime material and workmanship limited warranty.</p> <p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p> <p>TEN (10) YEAR PRO-RATED PAINT AND CORROSION Each new piece of apparatus shall be provided with a ten (10) year pro-rated paint and corrosion limited warranty on the apparatus body. The warranty shall cover painted exterior surfaces of the body to be free from blistering, peeling, corrosion, or any other adhesion defect caused by defective manufacturing methods or paint material selection that would arise under normal use and service.</p> <p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p> <p>THREE (3) YEAR MATERIAL AND WORKMANSHIP The gold leaf lamination shall be provided with a three (3) year material and</p>		
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Specification Certification 2100 Gallon Water Tender - Bid No: ITB 12-0003	Bidder Complies	
SPECIFICATION ITEM	YES	No

<p>workmanship limited warranty. The warranty shall cover the gold leaf lamination as being free from defects in material and workmanship that would arise under normal use and service.</p> <p>A copy of the warranty certificate shall be submitted with the bid package (No Exception).</p> <p>VEHICLE STABILITY CERTIFICATION The fire apparatus manufacturer shall provide a certification stating the apparatus complies with NFPA 1901, current edition, section 4.13, Vehicle Stability. The certification shall be provided at the time of bid.</p> <p>CAB INTEGRITY The cab has been tested to and passed the following standards:</p> <ul style="list-style-type: none"> - ECE Regulation No.29 - SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks. <p style="text-align: center;">END OF 2100 GALLON WATER TENDER SPECIFICATION</p> <p style="text-align: center;">*****</p>		
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Technical Evaluation Worksheet

Bid No: ITB 12-0003

Bidder Name: _

If a "NO" line is marked in Lead Agency Specifications, the Bidder must provide a complete explanation in the space below. The change must be stated in terms of Page Number, Section Description and Proposed Change or Substitution. In addition, if a substitute is being proposed, whether it exceeds the specifications or takes exception to the specification, technical data supported by a registered engineer must be provided for verification. Failure to complete this Form may result in disqualification. (Copy the format below for additional entries, add pages as needed).

1.

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Explanation:			

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SAMPLE MASTER PURCHASE AGREEMENT

This Master Purchase Agreement dated as of JUNE ___, 2012 is by and between the TUALATIN VALLEY FIRE & RESCUE (“Purchaser”) and __ (“Supplier”).

RECITALS

WHEREAS, the Supplier is in the business of selling certain ___ and related products and services, as further described herein; and

WHEREAS, the Supplier desires to sell and the Purchaser desires to purchase certain products and related services all upon and subject to the terms and conditions set forth herein; and

WHEREAS, the Supplier desires to extend the terms of this Master Purchase Agreement to members National Purchasing Partners, LLC, also doing business as FireRescue GPO and Public Safety GPO.

NOW, THEREFORE, Supplier and Purchaser, intending to be legally bound, hereby agree as follows:

ARTICLE 1 – CERTAIN DEFINITIONS

1.1 “Parties” shall mean the Purchaser and Supplier.

1.2 “Agreement” shall mean to this Master Purchase Agreement, including the main body of this Agreement and Attachments A-F attached hereto and by this reference incorporated herein, including Purchaser’s Solicitation No. __ (herein “ITB”) and Supplier’s Bid submitted in response to the ITB (herein “Supplier’s Bid”) as referenced and incorporated herein as though fully set forth (sometimes referred to collectively as the “Contract Documents”).

1.3 “Employee Taxes” shall mean all taxes, assessments, charges and other amounts whatsoever payable in respect of, and measured by the wages of, the Supplier’s employees (or subcontractors), as required by the Federal Social Security Act and all amendments thereto and/or any other applicable federal, state or local law.

1.4 “Purchaser’s Destination” shall mean such delivery location(s) or destination(s) as Purchaser may prescribe from time to time.

1.5 “Products” shall mean the products and/or services to be sold by Supplier hereunder as identified and described on Attachment A hereto and incorporated herein, as may be updated from time to time by Supplier to reflect products and/or services offered by Supplier generally to its customers.

1.6 “Purchase Order” shall mean any authorized written, electronic, telephone or fax order sent or made by Purchaser pursuant hereto, including, but not limited to, written purchase orders, requisitions sent by fax machine, and orders in such other form and/or mode of transmission as Purchaser and Supplier may from time to time agree. Each Purchase Order will specify the following items: National Purchasing Partners/FireRescue GPO contract number, specific Products requested (by id number), unit price per Product, quantity, delivery schedule, destination (with

SAMPLE MASTER PURCHASE AGREEMENT

contact/recipient), and total price of the Purchase Order. Each Purchase Order issued under this Agreement shall be made part of, and be incorporated into this Agreement, and shall reference this Agreement on the face of each Purchase Order. Should any Purchase Order not conform to or satisfy the terms of this Agreement, Supplier shall have five (5) business days after receipt to reject the Purchase Order. By not rejecting the Purchase Order within five (5) business days, Supplier will have accepted the Purchase Order. Acceptance by Supplier is limited to the provisions proposed by Supplier or Purchaser shall apply. In addition, the parties agree that this Agreement and accepted Purchase Orders constitute a contract for the sale of goods and/or services and satisfy all statutory and legal formalities of a contract.

1.7 “Unemployment Insurance” shall mean the contribution required of Supplier, as an employer, in respect of, and measured by, the wages of its employees (or subcontractors) as required by any applicable federal, state or local unemployment insurance law or regulation.

1.8 “National Purchasing Partners” is a subsidiary of a nonprofit health care system and provides group purchasing marketing and administrative support for governmental entities and non-profit institutions within its membership. National Purchasing Partners’ membership includes participating public and non-profit entities across North America.

1.9 “Participating Agencies” shall mean members of National Purchasing Partners, FireRescue GPO, and Public Safety GPO for which Supplier has agreed to extend the terms of this Master Purchase Agreement pursuant to Article 2.5 and Attachment C herein.

2 ARTICLE 2 – AGREEMENT TO SELL

2.1 Supplier hereby agrees to sell to Purchaser such Products as Purchaser may order from time to time by Purchase Order, all in accordance with and subject to the terms, covenants and conditions of this Agreement. Purchaser agrees to purchase those Products ordered by Purchaser by Purchase Order in accordance with and subject to the terms, covenants and conditions of this Agreement.

2.2 All Purchase Orders issued by Purchaser to Supplier for Products during the Term (as hereinafter defined) of this Agreement are subject to the provisions of this Agreement as though fully set forth in such Purchase Order. In the event that the provisions of this Agreement conflict with any Purchase Order issued by Purchaser to Supplier, the provisions of this Agreement shall govern. No other terms and conditions, including, but not limited to, those contained in Supplier’s standard printed terms and conditions, on Supplier’s order acknowledgment, invoices or otherwise, shall have any application to or effect upon or be deemed to constitute an amendment to or to be incorporated into this Agreement, any Purchase Order, or any transactions occurring pursuant hereto or thereto, unless this Agreement shall be specifically amended to adopt such other terms and conditions in writing by the parties.

2.3 Notwithstanding any other provision of this Agreement to the contrary, Purchaser shall have no obligation to order or purchase any Products hereunder and the placement of any Purchase Order shall be in the sole discretion of Purchaser. Without limiting the generality of the foregoing, the actual quantity of Products to be purchased hereunder shall be determined by Purchaser in its sole discretion. This Agreement is not exclusive. Supplier expressly

SAMPLE MASTER PURCHASE AGREEMENT

acknowledges and agrees that Purchaser may purchase at its sole discretion, products which are identical or similar to the Products described in this Agreement from any third party.

2.4 In case of any conflict or inconsistency between any of the Contract Documents, the documents shall prevail and apply in the following order of priority:

- This Agreement;
- Supplier's Bid; and
- The ITB.

Supplier has provided no Exceptions to the ITB Solicitation. Extension of contract terms to National Purchasing Partners, LLC and FireRescue GPO

2.5 Pursuant to Section 1.0 of the ITB, Supplier agrees to extend the same terms, covenants and conditions available to Purchaser under this Agreement to other government agencies and non-profit entities that are members of National Purchasing Partners, FireRescue GPO, or Public Safety GPO, that have executed a National Purchasing Partners IGA as a Participating Agency as may be required by the government agency's local regulations, and that wish to access this Agreement in accordance with Attachment C which is attached hereto and incorporated herein by reference ("Participating Agencies"). Each Participating Agency will be exclusively responsible for and deal directly with Supplier on matters relating to ordering, delivery, inspection, acceptance, invoicing, and payment for Products in accordance with the terms and conditions of this Agreement as if it were "Purchaser" hereunder. Any disputes between a Participating Public Agency and Supplier will be resolved directly between them under and in accordance with the laws of the State in which the Participating Public Agency exists. Pursuant to the ITB, TUALATIN VALLEY FIRE & RESCUE shall not incur any liability as a result of the access and utilization of this Agreement by other NPP Participating Agencies.

2.5.2 *This Solicitation meets Oregon public contracting requirements and may not be appropriate under or meet Participating Agencies' procurement laws. Participating Agencies are urged to seek independent review by their legal counsel to ensure compliance with all local and state solicitation requirements.*

2.5.3 Supplier acknowledges execution of a Vendor Administration Fee Agreement with National Purchasing Partners, LLC, pursuant to the ITB.

2.6 Oregon Public Agencies are prohibited from use of products and services offered under this contract that are already provided by qualified nonprofit agencies for disabled individuals as listed on the Department of Administrative Service's Procurement List ("Procurement List") pursuant to ORS 279.835-.855. See www.OregonRehabilitation.org/qrf for more information. Supplier shall not sell products and services identified on the Procurement List (e.g., reconditioned toner cartridges) to Purchaser or Participating Agencies within the state of Oregon or to public institutions in other states with similar restrictions.

ARTICLE 3 – TERM AND TERMINATION

3.1 The term of this Agreement shall commence on the date hereof and shall continue for one (1) year, expiring on December 30, 2012 (the "Original Term"), subject to any earlier

SAMPLE MASTER PURCHASE AGREEMENT

termination as provided herein. Upon termination of the original one (1) year term, this Agreement shall automatically extend for up to five (5) successive one (1) year periods; provided that the Lead Contracting Agency, through NPP, and/or the Proposer may opt to decline extension of the Master Purchase Agreement by providing notification in writing least thirty (30) calendar days prior to the annual automatic extension anniversary of the original Master Purchase Agreement term.

3.2 Pricing shall remain firm and fixed during each MPA period. Adjustments are only allowed pursuant to the Escalation / De-escalation clause in Article 4. Annual price increases (after the initial contract period) shall be limited to the lesser of 3% or the increase in the Consumer Price Index (CPI) for the region in which the manufacturers headquarters is located. Note: Lead Agency acknowledges that manufacturer may be entitled to annual increases in excess of the above as a result of verifiable raw materials price increase or future changes required by regulatory agencies (i.e. NFPA, DOT, EPA, etc.) that could not reasonably have been foreseen by the manufacturer.

3.3 Either party may terminate this Agreement by written notice to the other party if the other party breaches any of its obligations hereunder and fails to remedy the breach within thirty (30) days after receiving written notice of such breach from the non-breaching party.

ARTICLE 4 – PRICING, INVOICES, AND PAYMENT

4.1 Purchaser shall pay Supplier for all Products ordered and delivered in compliance with the terms and conditions of this Agreement on the terms and at the price or prices specified for each such Product on Attachment A. Unless Attachment A or Supplier's Bid expressly provides otherwise, the general catalog discount off list schedule for Products set forth in Supplier's Bid and attached to Attachment A hereto shall remain fixed for the entire term of the agreement but manufacturer pricing is not guaranteed and may be adjusted based on the next manufacturer price increase. Unless otherwise directed by Purchaser for expedited orders, Supplier shall utilize such common carrier for the delivery of Products as Supplier may select; provided, however, that for expedited orders Supplier shall obtain delivery services hereunder at rates and terms not less favorable than those paid by Supplier for its own account or for the account of any other similarly situated customer of Supplier.

4.2 Supplier shall submit original invoices to Purchaser in form and substance and format reasonably acceptable to Purchaser. All invoices must reference the Purchaser's Purchase Order number, contain an itemization of amounts for Products purchased during the applicable invoice period and any other information reasonably requested by Purchaser, and must otherwise comply with the provisions of this Agreement and such reasonable requirements as may be prescribed by Purchaser from time to time. Invoices shall be addressed as directed by Purchaser.

4.3 Unless Attachment A or Supplier's Bid (Attachment D) expressly provides otherwise, the prices specified on Attachment A include (i) all taxes and duties of any kind which Supplier is required to pay with respect to the sale of Products covered by this Agreement and (ii) all charges for packing, packaging and loading.

4.4 Seller shall ship the Hardware to Buyer at Buyer's expense on or before the dates set forth in the Installation Schedule. Partial deliveries shall be permitted. Upon delivery to the first carrier, title to each portion of the Hardware and all risk of loss or damage shall pass to Buyer; provided, however, that Seller shall remain responsible until Acceptance of the System for loss or damage resulting from the willful misconduct or negligent acts or omissions of Seller, its employees, agents, and subcontractors. Buyer shall keep the Hardware fully insured for the total amount of all monies then due, or yet to become due, to Seller with respect to this Agreement.

SAMPLE MASTER PURCHASE AGREEMENT

4.5 Except as specifically set forth on Attachments A and F, Purchaser shall not be responsible for any additional costs or expenses of any nature incurred by Supplier in connection with the provision of the Products, including without limitation travel expenses, clerical or administrative personnel, long distance telephone charges, etc. ("Incidental Expenses"). To the extent that Attachment A expressly requires Purchaser to reimburse Supplier for Incidental Expenses, and notwithstanding anything else set forth in this Agreement, including Attachment A, Purchaser shall not be responsible for any such reimbursement unless the expenses to be reimbursed are (i) approved, in each instance, in advance by Purchaser; and (ii) substantiated by appropriate receipts and related documentation. It is acknowledged and agreed that Purchaser may, as a condition of its approval of any such Incidental Expense reimbursement, require in each instance Supplier to utilize suppliers or service providers prescribed by Purchaser, which may include suppliers or service providers which are affiliated with Purchaser.

4.6 **PRICE ESCALATION/DE-ESCALATION.** Ninety (90) Days prior to the MPA expiration period date Lead Agency will initiate an MPA extension (if any). During this extension period the Vendor may pass on to the Lead Agency verifiable increases in its supplier's pricing. The Lead Agency shall have the right to accept or reject any proposed price change. Conversely, the Vendor shall pass on to the Lead Agency any decrease of like costs. In either case, the Vendor may maintain the same margin. The Vendor shall be prepared to provide the documentary evidence to support price changes. The Lead Agency reserves the right to terminate this MPA, in whole or in part, without prejudice, if the Vendor increases prices. Additionally, the Lead Agency reserves the right to terminate the MPA, in whole or part, if there is a reduction in price for a product on this MPA in the general market and the Vendor's price does not reflect this reduction. The Lead Agency reserves the right to audit the Vendor's financial records as they pertain to administration of this clause.

ARTICLE 5 – INSURANCE

During the term of this Agreement, Supplier shall maintain at its own cost and expense (and shall cause any subcontractor to maintain) insurance policies providing insurance of the kind and in the amounts hereunder:

COMMERCIAL GENERAL LIABILITY INSURANCE

The Supplier and Manufacturer shall, during the performance of the MPA and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of commercial general liability insurance:

A.	Each Occurrence	\$2,000,000
B.	Products/Completed Operations Aggregate	\$2,000,000
C.	Personal and Advertising Injury	\$2,000,000
D.	General Aggregate	\$4,000,000

Coverage shall be written on a Commercial General Liability form. The policy shall be written on an occurrence form and shall include Contractual Liability coverage for bodily injury and property damage subject to the terms and conditions of the policy. The policy shall include Purchaser as an additional insured when required or requested.

COMMERCIAL AUTOMOBILE LIABILITY INSURANCE

SAMPLE MASTER PURCHASE AGREEMENT

The Supplier and Manufacturer shall, during the performance of the MPA keep in force at least the following minimum limits of commercial automobile liability insurance:

- A. Each Accident Combined Single Limit: \$2,000,000
- B. Coverage shall be written on a Commercial Automobile liability form.

UMBRELLA/EXCESS LIABILITY INSURANCE

The Supplier and Manufacturer shall, during the performance of the MPA and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

- A. Aggregate: \$25,000,000
- B. Each Occurrence: \$25,000,000

The umbrella policy shall be written on an occurrence basis and at a minimum provide excess to the Supplier's General Liability, Automobile Liability and Employer's Liability policies. Member shall be included as an additional insured on the General Liability policy when required or requested.

The required limits can be provided by one or more policies provided all other insurance requirements are met. Coverage shall be provided by a carrier(s) rated A- or better by A.M. Bests.

ADDITIONAL INSURED AND NOTICE OF CANCELLATION OR CHANGE.

Supplier agrees to furnish Purchaser with a current Certificate of Insurance with the coverages listed above. The certificate shall show the purchaser as certificate holder. The Certificate of Insurance shall provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, the issuing insurer shall endeavor to mail 30 days written notice to the certificate holder named to the left, but failure to do so shall impose no obligation or liability of any kind upon the insurer, its agents or representatives.

There shall be no cancellation, material change, potential exhaustion or aggregate limits or intent not to renew insurance coverage without 30 days written notice from the Supplier or its insurer(s) to Purchaser. Any failure to comply with the reporting provisions of this insurance, except for the potential exhaustion of aggregate limits, shall not affect the coverage(s) provided to Purchaser.

ARTICLE 6 – INDEMNIFICATION

Supplier agrees that it shall indemnify, defend and hold harmless Purchaser, its respective officials, directors, employees and agents (collectively, the "Indemnities"), and National Purchasing Partners from and against any and all damages, claims, losses, expenses, costs, obligations and liabilities (including without limitation reasonable attorney's fees), suffered directly or indirectly by any of the Indemnities by reason of, or arising out of, (i) any breach of any covenant, representation or warranty made by Supplier in this Agreement, (ii) any failure by Supplier to perform or fulfill any of its obligations, covenants or agreements set forth in this Agreement, (iii) the negligence or intentional misconduct of Supplier, any subcontractor of Supplier, or any of their respective employees or agents, (iv) any failure of Supplier, its subcontractors, or their respective employees to comply with any Applicable Law, (v) any litigation, proceeding or claim by any third party relating in any way to the obligations of Supplier under this Agreement or Supplier's performance under this Agreement, (vi) any Employee Taxes or Unemployment Insurance, or (vii) any claim alleging that

SAMPLE MASTER PURCHASE AGREEMENT

the Products or any part thereof infringe any third party's U.S. patent, copyright, trademark, trade secret or other intellectual property interest. Such obligation to indemnify shall not apply where the damage, claim, loss, expense, cost, obligation or liability is due to the breach of this Agreement by, or negligence or willful misconduct of, Purchaser or its officials, directors, employees, agents or contractors. In addition, Supplier shall not be liable for infringement claims related to nonstandard or special-order product, the design of which is provided to Supplier by Purchaser. The provisions of this Article shall survive the expiration or termination of this Agreement.

LIMITATION OF LIABILITY: IN NO EVENT WILL EITHER PARTY BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES IN CONNECTION WITH OR ARISING OUT OF THIS AGREEMENT, INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR INJURIES TO PERSONS OR TO PROPERTY OR LOSS OF PROFITS OR LOSS OF FUTURE BUSINESS OR REPUTATION, WHETHER BASED ON TORT OR BREACH OF CONTRACT OR OTHER BASIS, EVEN IF IT HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

ARTICLE 7 – WARRANTIES

Purchaser shall refer to Supplier's Bid for all Supplier and manufacturer express warranties, as well as those warranties provided under Attachment B herein.

ARTICLE 8 - INSPECTION AND REJECTION

8.1 Purchaser shall have the right to inspect and test Products at any time prior to shipment, and within a reasonable time after delivery to the Purchaser's Destination. Products not inspected within a reasonable time after delivery shall be deemed accepted by Purchaser. The payment for Products shall in no way impair the right of Purchaser to reject nonconforming Products, or to avail itself of any other remedies to which it may be entitled.

8.2 If any of the Products are found at any time to be defective in material or workmanship, damaged, or otherwise not in conformity with the requirements of this Agreement or any applicable Purchase Order, as its exclusive remedy, Purchaser may at its option and at Supplier's sole cost and expense, elect either to (i) return any damaged, non-conforming or defective Products to Supplier for correction or replacement, or (ii) require Supplier to inspect the Products and remove or replace damaged, non-conforming or defective Products with conforming Products. If Purchaser elects option (ii) in the preceding sentence and Supplier fails promptly to make the necessary inspection, removal and replacement, Purchaser, at its option, may inspect and sort the Products and Supplier shall bear the cost thereof. Payment by Purchaser of any invoice shall not constitute acceptance of the Products covered by such invoice, and acceptance by Purchaser shall not relieve Supplier of its warranties or other obligations under this Agreement.

8.3 The provisions of this Article shall survive the expiration or termination of this Agreement.

SAMPLE MASTER PURCHASE AGREEMENT

ARTICLE 9 – SUBSTITUTIONS

Except as otherwise permitted hereunder, Supplier may not make any substitutions of Products, or any portion thereof, of any kind without the prior written consent of Purchaser.

ARTICLE 10 - COMPLIANCE WITH LAWS

10.1 Supplier agrees to comply with all Applicable Laws. Without limitation of the foregoing sentence, Supplier shall comply with; Title VI and VII of Civil Rights Act of 1964, as amended; Sections 503 and 504 of the Rehabilitation Act of 1973, as amended; The Americans with Disabilities Act of 1990, as amended, and ORS 659.425; Executive Order 11246, as amended; The Age Discrimination in Employment Act of 1967, as amended, and the Age Discrimination Act of 1975, as amended; The Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended; ORS Chapter 659, as amended; All regulations administrative rules established pursuant to the foregoing laws; All other applicable requirements of federal and state civil rights and rehabilitation statutes, rules and regulations; All federal and state laws governing the handling, processing, packaging, storage, labeling, and delivery of food products, if applicable; All laws, regulations and executive orders applicable are incorporated by reference where so required by law; And, during the Term of this Agreement, maintain any and all licenses, permits, approvals, authorizations, registrations and certificates, if any, required by Applicable Laws in connection with the performance of its obligations hereunder. At Purchaser's request, Supplier shall provide to Purchaser copies of any or all such licenses, permits, approvals, authorizations, registrations and certificates.

10.2 The Vendor certifies that it will comply with all applicable provisions of the Uniform Commercial Code, federal, state and local laws, regulations, rules and orders.

10.3 Purchaser has taken all required governmental action to authorize its execution of this Agreement and there is no governmental or legal impediment against Purchaser's execution of this Agreement or performance of its obligations hereunder.

ARTICLE 11 – PUBLICITY / CONFIDENTIALITY

11.1 No news releases, public announcements, advertising materials, or confirmation of same, concerning any part of this Agreement or any Purchase Order issued hereunder shall be issued or made without the prior written approval of the parties. Neither party shall in any advertising, sales materials or in any other way use any of the names or logos of the other party without the prior written approval of the other party.

11.2 Any knowledge or information which Supplier or any of its affiliates shall have disclosed or may hereafter disclose to Purchaser, and which in any way relates to the Products covered by this Agreement shall not, unless otherwise designated by Supplier, be deemed to be confidential or proprietary information, and shall be acquired by Purchaser, free from any restrictions, as part of the consideration for this Agreement.

ARTICLE 12 - RIGHT TO AUDIT

Subject to Supplier's reasonable security and confidentiality procedures, Purchaser, or any third party retained by Purchaser, may at any time upon prior reasonable notice to Supplier, during

SAMPLE MASTER PURCHASE AGREEMENT

normal business hours, audit the books, records and accounts of Supplier to the extent that such books, records and accounts pertain to sale of any Products hereunder or otherwise relate to the performance of this Agreement by Supplier. Supplier shall maintain all such books, records and accounts for a period of at least three (3) years after the date of expiration or termination of this Agreement. This Article 12 and Purchaser's rights hereunder shall survive the expiration or termination of this Agreement for a period of three (3) years after the date of such expiration or termination and Purchaser shall continue to have the right to audit during such period.

ARTICLE 13 - DELIVERY REQUIREMENTS

TIME IS OF THE ESSENCE WITH RESPECT TO EACH ORDER ISSUED HEREUNDER. If Supplier for any reason anticipates difficulty in complying with the required delivery date, or in meeting any of the other requirements hereunder or under any Purchase Order, Supplier shall promptly notify Purchaser in writing. Except as otherwise provided in Article 17 below, if Supplier does not comply with the applicable delivery schedule, in addition to any other remedies it may have, Purchaser may require delivery by fastest method available and any actual out-of-pocket charges or costs resulting from such method (including, but not limited to, premium shipping rates, etc.), if any, must be fully prepaid and/or absorbed by Supplier without additional cost to Purchaser. It is Supplier's responsibility to comply with the delivery schedule applicable to each Purchase Order accepted by Supplier.

ARTICLE 14 - REMEDIES

Except as otherwise provided herein, any right or remedy of Supplier or Purchaser set forth in this Agreement shall not be exclusive, and, in addition thereto, Supplier and Purchaser shall have all rights and remedies under applicable law, including without limitation, equitable relief. The provisions of this Article shall survive the expiration or termination of this Agreement.

ARTICLE 15 - RELATIONSHIP OF PARTIES

Supplier is an independent contractor and is not an agent, servant, employee, legal representative, partner or joint venturer of Purchaser. Nothing herein shall be deemed or construed as creating a joint venture or partnership between Supplier and Purchaser. Neither party has the power or authority to bind or commit the other.

ARTICLE 16 - NOTICES

All notices required or permitted to be given or made in this Agreement shall be in writing. Such notice(s) shall be delivered to the address specified below:

If to Purchaser:
Tualatin Valley Fire & Rescue
ATTN: Eric Wicks
11945 SW 70th Ave
Tigard, OR 97223

If to Supplier:

SAMPLE MASTER PURCHASE AGREEMENT

with a copy to:

Bruce R. Busch
Senior Vice President, Legal Counsel
National Purchasing Partners, LLC
1100 Olive Way, Suite 1020
Seattle, WA 98101

Either party may change its notice address by giving the other party written notice of such change in the manner specified above.

ARTICLE 17 - FORCE MAJEURE

Delay in performance or non-performance of any obligation contained herein shall be excused to the extent such failure or non-performance is caused by force majeure. For purposes of this Agreement, "force majeure" shall mean any cause or agency preventing performance of an obligation which is beyond the reasonable control of either party hereto, including without limitation, fire, flood, sabotage, shipwreck, embargo, strike, explosion, labor trouble, accident, riot, acts of governmental authority (including, without limitation, acts based on laws or regulations now in existence as well as those enacted in the future), acts of God, and delays or failure in obtaining raw materials, supplies or transportation. A party affected by force majeure shall promptly provide notice to the other, explaining the nature and expected duration thereof, and shall act diligently to remedy the interruption or delay if it is reasonably capable of being remedied. In the event of a force majeure situation, deliveries or acceptance of deliveries that have been suspended shall not be required to be made upon the resumption of performance.

ARTICLE 18 - WAIVER

No delay or failure by either party to exercise any right, remedy or power herein shall impair such party's right to exercise such right, remedy or power or be construed to be a waiver of any default or an acquiescence therein; and any single or partial exercise of any such right, remedy or power shall not preclude any other or further exercise thereof or the exercise of any other right, remedy or power. No waiver hereunder shall be valid unless set forth in writing executed by the waiving party and then only to the extent expressly set forth in such writing.

ARTICLE 19 - PARTIES BOUND; ASSIGNMENT

This Agreement shall inure to the benefit of and shall be binding upon the respective successors and assigns of the parties hereto, but it may not be assigned in whole or in part by Supplier without the prior written consent of Purchaser which shall not be unreasonably withheld or delayed. Supplier shall not delegate its duties under this Agreement nor assign monies due or to become due to it hereunder without prior written consent of Purchaser. Purchaser may freely assign this Agreement to an instrumentality thereof or to a third party responsible for administering this Agreement on behalf of Purchaser.

SAMPLE MASTER PURCHASE AGREEMENT

ARTICLE 20 - SEVERABILITY

To the extent possible, each provision of this Agreement and any Purchase Order shall be interpreted in such a manner as to be effective and valid under applicable law. If any provision of this Agreement or any Purchase Order issued in accordance with this Agreement is declared invalid or unenforceable, by judicial determination or otherwise, such provision shall not invalidate or render unenforceable the entire Agreement or Purchase Order, but rather the entire Agreement or Purchase Order shall be construed as if not containing the particular invalid or unenforceable provision or provisions and the rights and obligations of the parties shall be construed and enforced accordingly.

ARTICLE 21 - INCORPORATION; ENTIRE AGREEMENT

21.1 All the provisions of the Attachments hereto are hereby incorporated herein and made a part of this Agreement. In the event of any apparent conflict between any provision set forth in the main body of this Agreement and any provision set forth in the Attachments, including the ITB and/or Supplier's Bid, the provisions shall be interpreted, to the extent possible, as if they do not conflict. In the event that such an interpretation is not possible, the provisions set forth in the main body of this Agreement shall control.

21.2 This Agreement (including Attachments and Contract Documents hereto) constitutes the entire agreement of the parties relating to the subject matter hereof and supersedes any and all prior written and oral agreements or understandings relating to such subject matter.

ARTICLE 22 - HEADINGS

Headings used in this Agreement are for convenience of reference only and shall in no way be used to construe or limit the provisions set forth in this Agreement.

ARTICLE 23 - MODIFICATIONS

This Agreement may be modified or amended only by a writing executed by both parties hereto.

ARTICLE 24 - GOVERNING LAW

This Agreement shall be governed by and interpreted in accordance with the laws of the state in which the Purchaser exists, without regard to its choice of law provisions.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first written above.

PURCHASER:

SAMPLE – DO NOT SIGN

By: _____

SAMPLE MASTER PURCHASE AGREEMENT

Name: Debra Guzman
Title: Chief Financial Officer
TUALATIN VALLEY FIRE & RESCUE

Dated: _____

SUPPLIER:

SAMPLE – DO NOT SIGN

By: _____

Name:

Title:

Dated: _____

SAMPLE MASTER PURCHASE AGREEMENT

ATTACHMENT A

to Purchase Agreement dated February _____, 2012 by and between **SUPPLIER** and **PURCHASER**.

PRODUCTS, SERVICES, SPECIFICATIONS AND PRICES

SAMPLE MASTER PURCHASE AGREEMENT

ATTACHMENT B

to Purchase Agreement dated February ____, 2012 by and between **SUPPLIER** and **PURCHASER**.

ADDITIONAL SELLER WARRANTIES

SAMPLE MASTER PURCHASE AGREEMENT

ATTACHMENT C

to Purchase Agreement dated February _____, 2012 by and between **SUPPLIER** and **PURCHASER**.

SAMPLE MASTER PURCHASE AGREEMENT

ATTACHMENT D

to Purchase Agreement dated February ____, 2012 by and between **SUPPLIER** and **PURCHASER**.

Supplier's Bid

(The Supplier's Bid is not attached hereto.)

(The Supplier's Bid is incorporated herein.)

SAMPLE MASTER PURCHASE AGREEMENT

ATTACHMENT E

to Purchase Agreement dated February ____, 2012 by and between **SUPPLIER** and **PURCHASER**.

Purchaser's Request for Bid

(The Purchaser's Request for Bid is not attached hereto.)

(The Purchaser's Request for Bid is incorporated herein.)

SAMPLE MASTER PURCHASE AGREEMENT

ATTACHMENT F

to Purchase Agreement dated February ____, 2012 by and between **SUPPLIER** and **PURCHASER**.

SUPPLIER ADDITIONAL TERMS OF PURCHASE, IF ANY.

RETURNS:

SAMPLE INTERGOVERNMENTAL AGREEMENT

Member Intergovernmental Cooperative Purchasing Agreement

This Intergovernmental Agreement (Agreement) is by and between government entities and associated non-profit institutions that execute a Lead Contracting Agencies Authorization (“Lead Contracting Agencies(ies)”) to be supplemented and made a part hereof and participating National Purchasing Partners (“NPP”) government entity members (“Participating Agencies”), including members of FireRescue GPO (“FRGPO”), that agree to the terms and conditions of this Agreement. All NPP and FRGPO Lead Contracting Agencies and Participating Agencies shall be considered as “parties” to this agreement.

WHEREAS, upon completion of a formal competitive solicitation and selection process, the Lead Contracting Agencies have entered into Master Price Agreements with one or more Vendors to provide goods and services, often based on national sales volume projections;

WHEREAS, NPP was created by a nonprofit medical center to provide group purchasing, marketing and administrative support for governmental entities within the membership. NPP and FRGPO marketing and administrative services are free to its membership, which includes participating public entities and non-profit institutions and fire departments throughout North America.

WHEREAS, NPP and FRGPO has instituted a cooperative purchasing program under which member Participating Agencies may reciprocally utilize competitively solicited Vendor Contracts through the inclusion of the membership in Lead Contracting Agency Bid Solicitation and Master Price Agreements;

WHEREAS, the Master Price Agreements provide that all members of NPP and FRGPO may purchase goods and services on the same terms, conditions and pricing as the Lead Contracting Agencies, subject to applicable local and state laws of the Participating Agencies;

WHEREAS, the parties agree to comply with the requirements of the Intergovernmental Cooperation Act as may be applicable to the local and state laws of the Participating Agencies;

WHEREAS, the parties desire to conserve and leverage resources, and to improve the efficiency and economy of the procurement process while reducing solicitation and procurement costs;

WHEREAS, the parties are authorized and eligible to contract with governmental bodies and Vendors to perform governmental functions and services, including the purchase of goods and services; and

WHEREAS, the parties desire to contract with Vendors under the terms of the Master Price Agreements open to all NPP and FRGPO members;

NOW, THEREFORE, the parties agree as follows:

ARTICLE 1: LEGAL AUTHORITY

SAMPLE INTERGOVERNMENTAL AGREEMENT

Each Party represents and warrants that it is eligible to participate in this Agreement because it is a local government, fire department, or non-profit corporation created and operated to provide one or more governmental functions and possesses adequate legal authority to enter into this Agreement.

ARTICLE 2: APPLICABLE LAWS

The procurement of goods and services subject to this Agreement shall be conducted in accordance with and subject to the relevant statutes, ordinances, rules, and regulations that govern each party's procurement policies. Competitive solicitations are intended to meet the public contracting requirements of the Lead Contracting Agencies and may not be appropriate under, or meet Participating Agencies' procurement laws. It is the responsibility of each party to ensure it has met all applicable solicitation and procurement requirements. Participating Agencies are urged to seek independent review by their legal counsel to ensure compliance with all local and state solicitation requirements.

ARTICLE 3: USE OF BID, PROPOSAL OR PRICE AGREEMENT

- a. Each party will facilitate the cooperative procurement of goods and services.
- b. The procuring party shall be responsible for the ordering of goods and services under this Agreement. A non-procuring party shall not be liable in any fashion for any violation by a procuring party, and the procuring party shall hold non-procuring parties harmless from any liability that may arise from action or inaction of the procuring party.
- c. The procuring party shall not use this agreement as a method for obtaining additional concessions or reduced prices for similar goods and services outside the scope of the Master Price Agreements.
- d. The exercise of any rights or remedies by the procuring party shall be the exclusive obligation of the procuring party.
- e. The cooperative use of bids, proposals or Price Agreements obtained by a party to this Agreement shall be in accordance with the terms and conditions of the bid, proposal or Price Agreement, except as modified where otherwise allowed or required by applicable law, and does not relieve the party of its other bid requirements under state law or local policies.

ARTICLE 4: PAYMENT OBLIGATIONS

The procuring party will make timely payments to Vendors for goods and services received in accordance with the terms and conditions of the procurement. Payment for goods and services, inspections and acceptance of goods and services ordered by the procuring party shall be the exclusive obligation of such procuring party. Disputes between procuring party and Vendor shall be resolved in accordance with the law and venue rules of the state of the procuring party.

ARTICLE 5: COMMENCEMENT DATE

SAMPLE INTERGOVERNMENTAL AGREEMENT

This Agreement shall take effect after execution of the “Lead Contracting Agencies Endorsement and Authorization” or “Participating Agency Endorsement and Authorization,” as applicable.

ARTICLE 6: TERMINATION OF AGREEMENT

This Agreement shall remain in effect until terminated by a party giving 30 days written notice to NPP at 1100 Olive Way, Suite 1030, Seattle, Washington 98101.

ARTICLE 7: ENTIRE AGREEMENT

This Agreement and any attachments, as provided herein, constitute the complete Agreement between the parties hereto, and supersede any and all oral and written agreements between the parties relating to matters herein.

ARTICLE 8: CHANGES AND AMENDMENTS

This Agreement may be amended only by a written amendment executed by all parties, except that any alterations, additions, or deletions of this Agreement that are required by changes in Federal and State law or regulations are automatically incorporated into this Agreement without written amendment hereto and shall become effective on the date designated by such law or regulation.

ARTICLE 9: SEVERABILITY

All parties agree that should any provision of this Agreement be determined to be invalid or unenforceable, such determination shall not affect any other term of this Agreement, which shall continue in full force and effect.

THIS INSTRUMENT HAS BEEN EXECUTED IN TWO OR MORE ORIGINALS BY EXECUTION AND ATTACHMENT OF EACH “LEAD CONTRACTING AGENCIES ENDORSEMENT AND AUTHORIZATION” OR “PARTICIPATING AGENCY ENDORSEMENT AND AUTHORIZATION,” AS APPLICABLE. ONCE EXECUTED, IT IS THE RESPONSIBILITY OF EACH PARTY TO FILE THIS AGREEMENT WITH THE PROPER AGENCY IF REQUIRED BY LOCAL OR STATE LAW.

SAMPLE INTERGOVERNMENTAL AGREEMENT

SAMPLE – DO NOT SIGN

Lead Contracting Agencies ENDORSEMENT AND AUTHORIZATION

The undersigned acknowledge, on behalf of _____ (Lead Contracting Agencies) that they have read and agree to the general terms and conditions set forth in the enclosed Member Intergovernmental Cooperative Purchasing Agreement regulating use of the Master Price Agreements and purchase of goods and services that from time to time are made available by Lead Contracting Agencies to Participating Agencies locally, regionally, and nationally through NPP and FRGPO. Copies of Master Price Agreements and any amendments thereto made available by Lead Contracting Agencies will be provided to Participating Agencies and NPP/FRGPO to facilitate use by Participating Agencies.

The undersigned understands that the purchase of goods and services under the provisions of the Member Intergovernmental Cooperative Purchasing Agreement is at the absolute discretion of the Participating Agencies.

The undersigned affirms that he/she is an agent of _____ and is duly authorized to sign this Lead Contracting Agencies Endorsement and Authorization.

SAMPLE – DO NOT SIGN

_____ Date: _____

BY: _____

ITS: _____

Lead Contracting Agencies Contact Information:

Contact Person: _____

Address: _____

Telephone No.: _____

Email: _____

SAMPLE – DO NOT SIGN

_____ Date: _____

BY: _____

ITS: _____

SAMPLE INTERGOVERNMENTAL AGREEMENT

Lead Contracting Agencies Contact Information:

Contact Person: _____

Address: _____

Telephone No.: _____

Email: _____

SAMPLE INTERGOVERNMENTAL AGREEMENT

SAMPLE – DO NOT SIGN

PARTICIPATING AGENCY ENDORSEMENT AND AUTHORIZATION

The undersigned acknowledges, on behalf of _____ (Participating Agency) that he/she has read and agrees to the general terms and conditions set forth in the enclosed Member Intergovernmental Cooperative Purchasing Agreement regulating use of the Master Price Agreements and purchase of goods and services that from time to time are made available by Lead Contracting Agencies to Participating Agencies locally, regionally, and nationally through NPP or FRGPO.

The undersigned further acknowledges that the purchase of goods and services under the provisions of the Member Intergovernmental Cooperative Purchasing Agreement is at the absolute discretion of the Participating Agency and that neither the Lead Contracting Agencies nor NPP/FRGPO shall be held liable for any costs or damages incurred by or as a result of the actions of the Vendor or any other Participating Agency. Upon award of contract, the Vendor shall deal directly with the Participating Agency concerning the placement of orders, disputes, invoicing and payment.

The undersigned affirms that he/she is an agent of _____ and is duly authorized to sign this Participating Agency Endorsement and Authorization.

SAMPLE – DO NOT SIGN

_____ Date: _____

BY: _____

ITS: _____

Participating Agency Contact Information:

Contact Person: _____

Address: _____

Telephone No.: _____

Email: _____

SAMPLE – DO NOT SIGN

Date , 2012

SAMPLE VENDOR ADMINISTRATION AGREEMENT



VENDOR CONTRACT NUMBER
NPP

VENDOR ADMINISTRATION AGREEMENT

Executive Summary

GPO NAME National Purchasing Partners OFFICE LOCATION Corporate Office: Seattle, Washington PRESIDENT Andrew Forrester andrew.forrester@MyNPP.com		VENDOR ADDRESS WEB ADDRESS CONTACT PERSON	
NPP CONTRACT IDENTIFICATION NPP		EMAIL/PHONE/FAX e p f	
EFFECTIVE DATES	FROM:	TO:	
In General	This contract entered into between VENDOR, (hereinafter referred to as "Vendor"), and National Purchasing Partners (hereinafter "NPP") is based upon the sales and/or service of _____ [APPARATUS] _____ (the "Services" and "Products) to the NPP members ("Members").		
Administration Contract Fee	1) Vendor agrees to pay NPP an administration fee equal to \$2,000 per apparatus vehicle purchased from Vendor by the Members under this Agreement and not under any other agreement. The fee will be exclusive of any other fee that may be due to other associations or buying groups to which Vendor belongs. 2) In return for this administration fee, the NPP agrees to provide contract marketing of this agreement to NPP members.		
Volume Sales Reports	3) Vendor agrees to submit an electronic Contract Activity Report to the NPP office 30 days following the end of each quarter. The Contract Activity Report will include the content and be in the format specified by NPP from time to time.		
Right to Review Books and Records	4) Vendor agrees to keep complete, current and accurate books, records and accounts of the transactions pursuant to this Agreement in order to verify compliance with this Agreement. Vendor further agrees to fully satisfy or otherwise comply with all inspection and reporting requirements provided under the Terms and Conditions to this Agreement.		
Use of Data	5) Vendor hereby acknowledges and agrees to all restrictions identified in the Terms and Conditions with respect to the dissemination of all NPP and/or Member Organization information and data.		
Permission to Market Vendor Products/Services and use Vendor Logo	6) Vendor hereby grants permission to the NPP to market Vendor's products and/or services to GPO members. Vendor agrees to provide NPP with all requested information including but not limited to logos, price sheets, and		

SAMPLE VENDOR ADMINISTRATION AGREEMENT

	<p>contact information within twenty (20) days of becoming an approved NPP Vendor. Furthermore, Vendor hereby authorizes the NPP to utilize the Vendor company logo, copy (text) provided by Vendor about their products and services, provided links to the Vendor web site, provided price sheets, and other such material and information necessary to market Vendor to NPP members. Vendor agrees to provide NPP information such as logo, product descriptions and pricing information within ten (10) working days of request.</p>
<p>Contract Term and Extension</p>	<p>7) This Vendor Administration Agreement shall be in effect for the duration of the Master Purchase Agreement referenced herein with respect to competitive solicitation obtained by a Request for Proposal or Request for Bid, unless otherwise terminated pursuant to the provisions of this Agreement. The term can be extended by written mutual consent for up to three consecutive one (1) year periods, consistent with the terms of the Master Purchase Agreement referenced herein.</p>
<p>Cancellation</p>	<p>8) This contract shall be in full force and effect from the effective date identified herein upon signing. This Vendor Administration Agreement shall be in effect for the duration of the Master Purchase Agreement referenced herein, whether obtained by NPP or a lead sponsoring Participating Agency, with respect to competitive solicitations, or a lead or sponsoring Participating Agency, with respect to non-competitive solicitation obtained by a Request for Proposal or Request for Bid, unless otherwise terminated pursuant to the provisions of this Agreement.</p>
<p>Entire Agreement</p>	<p>9) This Contract, including the Terms and Conditions of which are a part of this contract and by their reference incorporated herein and of which Vendor acknowledges it has reviewed and signed, shall constitute the entire agreement between the NPP and Vendor with respect to the subject matter herein and shall supersede all prior verbal or written agreements, understandings, promises, and contracts between the parties.</p>

SAMPLE VENDOR ADMINISTRATION AGREEMENT

National Purchasing Partners Vendor Administration Agreement Terms and Conditions

In addition to the terms set forth in the Executive Summary, National Purchasing Partners and Vendor shall comply with the following general terms and conditions.

1. **Recitals.** This National Purchasing Partner Vendor Administration Agreement (“Agreement”) is made and entered into as of the Effective Date (as defined on the signature page hereto) by and between National Purchasing Partners (“NPP”), dba FireRescue GPO (“FRGPO”) and Public Safety GPO, and _____ (“Vendor”), (collectively, “the Parties”).
 - a) NPP is a group purchasing organization (“GPO”) which enters into arrangements for the purchase of products and services on behalf of member Participating Agencies located throughout North America;
 - b) NPP provides a broad portfolio of agreements capable of serving all types of organizations; and
 - c) NPP’s objective is to utilize lead or sponsoring governmental member institutions to secure agreements with Vendors that provide the Participating Agencies with a pool of resources from which to obtain products and services of optimum value at discounted prices while satisfying state and federal competitive solicitation requirements where applicable; and
 - d) Vendor desires to provide products and services to the Participating Agencies pursuant to the terms of this Agreement and the Master Purchase Agreement referenced herein.

2. **Definitions.** Unless otherwise defined in the text of this Agreement, capitalized terms used herein shall have the meaning ascribed to them in this Paragraph 2:
 - a) **Authorized Vendor** means those dealers, Vendors, wholesalers, and/or manufacturers authorized in writing by NPP to distribute Products and Services at NPP contract pricing to the Participating Agencies.
 - b) **Contract Activity Report** means the report(s) Vendor is required to submit to NPP listing all Sales under this Agreement, such report(s) to be substantially in the form of Addendum A as may be amended from time to time attached hereto.
 - c) **Contract Administration Fee** means the percentage of Sales Vendor agrees to remit to NPP that are realized or generated as a consequence of this Agreement or any other arrangement between Vendor and a Participating Agency.
 - d) **Contract Period** means the period as defined in the Master Purchase Agreement executed by Vendor and the lead government member institution.
 - e) **Force Majeure Event** means a natural disaster, work stoppage, actions or decrees of governmental bodies or communications failures not the fault of a party hereto.
 - f) **Master Purchase Agreement** means the agreement [also referred to as Contract] incorporated herein by reference, and the terms and conditions contained therein shall apply to this Agreement except as expressly modified by this Agreement.
 - g) **Participating Agencies** means the member governmental units represented by NPP.
 - h) **Minority Business /H.U.B. Min** means any business certified by a federal, state or local governmental agency, or identified by a Participating Agency pursuant to the Participating Agency’s own diversity initiatives or internal policies, as a Minority Business Enterprise, Small Business Enterprise, Historically Underutilized Business, Women-owned Business Enterprise, or some other comparable classification.
 - i) **Products** mean those items, accessories, equipment or services to be provided to the Participating Agencies by Vendor in accordance with this Agreement, the Request for Proposal and/or the Master Purchase Agreement entered into by Vendor and a Participating Agency.
 - j) **Sales** means the actual amount, including any credits or discounts, billed by Vendor to and paid by Participating Agencies for the Products.

3. **Reservation of Right.** NPP, acting in the best interest of all of the Participating Agencies, reserves the right (without any obligation) to:
 - a) Request minor modifications of Vendor’s and/or competing proposal(s) in order to facilitate use of the resulting Master Purchase Agreement by its members; or

SAMPLE VENDOR ADMINISTRATION AGREEMENT

- b) Seek other agreements (from Vendor and/or others) for the benefit of its members as may be permitted outside the competitive solicitation process.

Vendor Obligations

- 4. **Participating Agencies.** During the Contract Period, Vendor shall offer and sell the Products to the Participating Agencies on the terms and conditions set forth:
 - a) In this Agreement and any other referenced Master Purchase Agreements;
 - b) Pursuant to the terms of any Master Purchase Agreement executed by Vendor and a Participating Agency that extends its terms to NPP membership; or
 - c) Pursuant to the terms of any Master Purchase Agreement executed by Vendor and a Participating Agency and obtained through a Request for Proposal, Request for Bid, or other competitive procurement process, whether published or not by the Participating Agency, that extends its terms to the NPP membership.

Participating Agencies shall be permitted to purchase products from Vendor at the prices or discounts identified in the Master Purchase Agreement by referencing the Vendor Contract Number or Price File Number when ordering products or services.

- 5. **Marketing.** Vendor shall offer good faith effort to market its Products to NPP members through its own internal means. Vendor may also offer good faith participation in informational marketing programs NPP provides to its membership. Current marketing programs offered by the NPP include:
 - a) **Home Page:** Spotlight Partner Program (additional annual fee)
 - b) **Member Product Training:** Opportunity for vendors to provide members product training.
 - c) **NPP Booth Participation:** Opportunity for vendors to present services at NPP's booth at conferences; provided that vendors agree to NPP's Terms of Booth Participation, as amended by NPP from time to time.
 - d) **Other Marketing Opportunities:** As offered from time to time.

Vendor may participate in any or all marketing programs at its convenience. Additionally, there are other opportunities at conventions and conferences, including joining NPP personnel in the NPP booth and providing literature and product samples to be displayed in the booth. Participation in most marketing programs is encouraged but voluntary.

- 6. **Marketing Materials - Use of NPP Logo.** Vendor may reference NPP and its logo in marketing materials provided that NPP has been provided the opportunity to review printed materials prior to distribution and vendor has complied with current NPP logo use specifications. Vendor must obtain written approval from NPP for all direct marketing materials prior to dissemination.
- 7. **Acknowledgment of national distribution expectations.** Vendor acknowledges that participating agencies may be located throughout North America and that the ability to distribute products and services on a national level is preferred but not required. Vendor further acknowledges that multiple bid awards may be granted if a local vendor is unable or unwilling to distribute products and services on a national level.
- 8. **No Disruption of NPP's Relationship with Participating Agencies.** Vendor shall not offer, persuade or seek to induce any participating agency to terminate its status or relationship with NPP in any manner or form whatsoever. A breach of this paragraph will constitute sufficient cause for NPP to terminate this agreement and/or to seek damages from vendor for loss of all actual and prospective contract administration fees resulting directly or indirectly from such breach.
- 9. **Substitute Products.** Vendor shall furnish only those products as ordered by participating agencies and shall not furnish an alternate or substitute product or brand to any participating agency without written approval of such participating agency and prior written notice to NPP.

SAMPLE VENDOR ADMINISTRATION AGREEMENT

10. **Distribution to Participating Agencies.** Vendor shall sell and ship such product to the participating agency at the address the participating agency so specifies. Vendor shall obtain payment for any delivered product directly from the participating agency to whom the product was delivered. Vendor shall be solely responsible, at its sole cost, for resolving all disputes and controversies regarding any purchase order, invoice, product, and shipment and/or delivery date with the applicable participating agencies without liability, participation or contribution by NPP.
11. **Prompt Delivery.** Vendor shall make prompt delivery of all products to participating agencies. Vendor and participating agencies may negotiate additional mutually agreed upon terms and conditions as they relate to the specific needs of a product or service, pursuant to the terms of the master purchase agreement executed by the vendor and participating agency, as modified or amended.
12. **Taxes.** If any tax is due with respect to the sale of any product hereunder, it shall be vendor's sole responsibility to collect and pay such tax. Vendor shall defend, indemnify and hold harmless NPP against any and all suits, claims and expenses arising out of any claimed failure to pay any tax on any product sold under this agreement.
13. **Restrictions on Use of Data.** Vendor hereby acknowledges and agrees that all NPP and/or participating agency information and data generated or otherwise made available to vendor as a result of NPP and participating agencies' participation under this agreement ("data"), may be used by vendor only for the following internal purposes: (i) reporting, and (ii) use of data as "input data" in a collection of data, cumulative in nature, which does not disclose the source, at any time, of the input data. In no event shall vendor sell, market or commercialize data or create derivative products or applications for sale based on data. Further, NPP and their affiliates shall have the right to sell, market and commercialize data and create derivative products and applications for sales based on data.

Participating Agency Matters

14. **State and Federal Procurement Laws.** Vendor acknowledges that some participating agencies are governmental entities and may be bound by state and/or federal competitive solicitation requirements as well as possible mandatory local vendor preference regulations. Vendor further acknowledges that amendment, modification and/or termination of all or select provisions of this agreement, master purchase agreements or other awards of contracts obtained from request for proposal, request for bid, or other solicitation process may prove necessary in order to comply with the laws of the state of origin of the participating agency. Vendor agrees to accommodate all reasonable requests by a participating agency to comply with federal, state and local laws.
15. **Minority Business Enterprise/H.U.B.** Certain participating agencies may be required or encouraged by law, regulation and/or internal policy to do business with minority businesses. To help the participating agencies meet such requirements or policies, vendor agrees to comply with all participating institution policies and programs with respect to minority businesses as requested, and to provide, upon request by the participating agency, statistical or other information regarding vendor's utilization of such minority businesses as vendors, vendors, contractors or subcontractors.

Term and Termination

16. **Term.** This vendor administration agreement shall be in effect for the duration of the master purchase agreement referenced herein with respect to competitive solicitation obtained by a request for proposal or request for bid, unless otherwise terminated pursuant to the provisions of this agreement. The term can be extended by written mutual consent for up to three consecutive one (1) year periods, consistent with the terms of the master purchase agreement referenced herein.
17. **Termination by NPP With Cause.** NPP may terminate this agreement for cause upon thirty-days (30-days) written notice to vendor, and failure by vendor to cure the event giving rise to cause within such thirty-day (30-day) period, except to the extent that shorter notice and cure periods are specified below. For purposes of this agreement, NPP shall have "cause" for termination if:

SAMPLE VENDOR ADMINISTRATION AGREEMENT

- a) Subject to Paragraph 40 herein, Vendor is unable for any reason to supply Participating Agencies with products or services at any time during the Contract Period, other than supplier and/or OEM manufacturer delays and shortages beyond the control of Vendor; or
 - b) Vendor does not maintain adequate equipment, inventory or personnel to properly service Participating Agencies; or
 - c) Vendor does not maintain the requisite insurance coverage specified in Paragraph 32 hereto; or
 - d) Where applicable, Vendor fails to notify NPP and the Participating Agencies within seven (7) days after (i) Vendor becomes aware of any defect or condition which may render any Product in violation of the Federal Food, Drug and Cosmetic Act, or any other federal, state or local law, regulation or ordinance, or which in any way alters the specifications or quality of any Product, or (ii) Vendor receives any notification of any regulatory action or warning letter concerning any Product; or
 - e) Vendor fails to pay any Contract Administration Fee or fails to submit any Contract Activity Report in accordance with this Agreement; or
 - f) Vendor does not cure any error in reporting or payment identified as a result of an audit as provided in Paragraph 27 hereto; or
 - g) Vendor otherwise breaches this Agreement and fails to cure such breach within thirty-days (30-days) after NPP gives written notice to Vendor thereof.
18. **Bankruptcy.** The Parties reserve the right, in their sole and exclusive judgment, to terminate this Agreement immediately upon notice that either Party (a) transfers assets in fraud of its creditors, (b) makes an assignment for the benefit of its creditors, (c) Vendor is the subject of any proceeding in bankruptcy instituted on behalf of or against it, (d) has a receiver or trustee appointed for its property, or (e) believes in its sole and exclusive judgment that the other Party is financially unable to carry out adequately its obligations under this Agreement.
19. **Termination by Vendor with Cause.** Vendor may terminate this Agreement if NPP breaches a material term of this Agreement and fails to cure such breach within thirty-days (30-days) after Vendor gives written notice to NPP thereof.
20. **Termination by the Parties without Cause.** Neither party may terminate this Agreement without cause prior to the termination of the Master Purchase Agreement referenced herein unless agreed upon by both parties in writing.
21. **Rights and obligations following termination.** Upon termination of this Agreement for any reason, NPP and Vendor shall have the following rights and obligations, which shall survive the termination of this Agreement:
- a) Neither party shall be released from any obligation arising under this Agreement prior to its termination, including, but not limited to, Vendor's obligation to pay NPP the Contract Administration Fee in full with respect to any sale of any Product through the date of termination of this Agreement; and
 - b) Vendor shall continue to honor each order for each Product, from each Participating Agency, up to the effective date of termination and for a period of thirty-days (30-days) thereafter, which orders shall be subject to the pricing, terms and conditions of this Agreement.
 - c) Vendor shall not release nor disseminate NPP data or other proprietary information acquired as a result of this Agreement to third parties.

Vendor Fee and Reporting Requirements

22. **Contract Activity Report.** Vendor shall remit to NPP a current Contract Activity Report in format acceptable to NPP within thirty-days (30-days) after the close of each Reporting Period. For purposes of this agreement, "Reporting Period" shall mean each Calendar Quarter.
23. **Contract Administration Fees.** Vendor shall remit to NPP, together with a Contract Activity Report, a Contract Administration Fee of \$2,000.00 per apparatus vehicle purchased by the Members under or as a consequence of this Agreement. Said fee shall include and be calculated based on all Services and Products purchased by a Participating Agency directly related to the NPP contract referenced by the Participating Agency. Said fee shall include and be calculated based on all Services and Products purchased by a Participating Agency directly related to the NPP contract referenced by the Participating Agency. Vendor shall

SAMPLE VENDOR ADMINISTRATION AGREEMENT

pay the Contract Administration Fee in U. S. Dollars by check or bank draft made payable to “NPP” and shall remit the Contract Administration Fee to NPP within thirty-days (30-days) after the close of each Reporting Period. Contract Administration Fee payment shall be made to the following address:

**National Purchasing Partners
P.O. Box 46930
St. Louis, MO 63146**

Each Contract Administration Fee payment must be accompanied by (a) the Contract Activity Report in both electronic and hard copy *and* (b) the following information to be provided by Vendor to NPP in writing:

- a) Vendor’s name (If a parent or affiliate corporation is making a payment on behalf of Vendor, Vendor’s name as it appears on this Agreement shall be identified on the face of the check stub or on the payment notice); and
- b) NPP contract number, if provided by NPP; and
- c) Reporting Period for which the Contract Administration Fee is being paid (e.g., 1/1/11 - 1/31/11).

24. **Contract Administration Fee Reporting Specifications.** Vendor agrees to comply with all provisions of the current quarterly reporting policy and procedure for non-compliance, as may be amended by NPP from time to time, with respect to failure to submit complete quarterly reports and payments. As indicated herein, vendor shall submit to NPP or its designee a contract activity report in electronic form and vendor shall comply with the specifications for electronic filing specified in this paragraph, as may be amended by NPP from time to time. Vendor shall provide NPP with a description of vendor’s process for loading the NPP participating agencies into its reporting systems and tracking and reporting sales by the participating agencies under this agreement. The description should include:

- a) Information concerning how Vendor: (a) adds Participating Agencies; and (b) enters pricing terms into its reporting systems and how Vendor makes such pricing terms available to Participating Agencies;
- b) The forms to be used by Vendor for the designation(s) described in clause a) above; and
- c) The names of the individual(s) responsible for this process and procedure for Vendor.

Contract Administration Fee Surcharge. This section intentionally left blank.

26. **Estimated Contract Administration Fee.** If the Contract Administration Fee has not been received by NPP within ninety-days (90-days) after the end of the Reporting Period to which it relates, NPP may invoice Vendor for the Contract Administration Fee estimated by NPP to be due for such Reporting Period. Vendor shall pay such estimated Contract Administration Fee within ten (10) days after receipt of NPP’s invoice, if Vendor has not previously paid the Contract Administration Fee for such Reporting Period. Invoice of such Contract Administration Fee by NPP, or payment of such estimated Contract Administration Fee by Vendor, shall not relieve Vendor of its obligation to submit the Contract Activity Report applicable to such Reporting Period and to pay in full the actual Contract Administration Fee owed with respect to such Reporting Period and any surcharge applicable thereto.

SAMPLE VENDOR ADMINISTRATION AGREEMENT

Right to Audit. Vendor agrees to keep complete, current and accurate books, records and accounts of the transactions pursuant to this Agreement in order to verify compliance with this Agreement. All such books, records and accounts shall be available for inspection and audit by NPP and its authorized representatives at any time during the term of this Agreement and for one (1) year thereafter, but no more frequently than twice in any consecutive twelve (12) month period and only during reasonable business hours and upon reasonable notice. If any NPP audits disclose a failure to provide the correct sales tracing information, then NPP shall have the right, at NPP's option, to increase frequency and scope of audits. If any of NPP's audits disclose a failure to provide the correct Contract Administration Fee, then NPP shall have the right, at NPP's option, to immediately terminate this Agreement while retaining the right to pursue collection of its earned fees and Vendor shall be responsible for the payment of the audit. Should any audit produce evidence that overcharges were incurred by Participating Agencies, then Vendor shall credit said Members within thirty-days (30-days) of written notice of said overcharge. If any Audit of Vendor invoices or other records reveal any variance from any invoice to any Member, Vendor shall immediately refund any excess payment received from the Member.

Notice

- a) Every notice, Contract Activity Report and other communication to NPP in connection with this Agreement shall be in writing. Each such notice, Contract Activity Report and other communication, and each payment and Contract Administration Fee hereunder, shall be sent to NPP at the following address until otherwise notified in writing by the other party:

**National Purchasing Partners
1100 Olive Way, Suite 1020
Seattle, WA 98101**

*Please note: Minor Reporting issues may be directed to the Contract Administrator at contracts@myNPP.com or (800) 810-3909.

- b) Unless otherwise notified by Vendor, every notice and other communication to Vendor in connection with this Agreement, including reporting discrepancies and problem resolution, shall be in writing and shall be addressed to:



Vendor must provide NPP written notice of change within thirty-days (30-days) following a change in the above contact individual.

- c) Alternatively, notices required pursuant to this Agreement may be personally served in the same manner as is applicable to civil judicial practice. Notice shall be deemed given as of the date of personal service or as of the postmark date of such written notice. The NPP and Vendor may modify the addresses for such notices provided such modification is given in writing under the provisions of this section.

Warranties, Indemnification and Law

29. **Product and Service Warranty.** Vendor represents and warrants to NPP that all original manufacturers' warranties will be upheld and each Product will not be improperly stored, reprocessed or repackaged from its original state. Vendor represents and warrants to NPP that all Services will be done in a good and workmanlike manner and warranted for 30 days.
30. **Compliance by Vendor with all Applicable Laws.** In the performance of its duties and obligations under this Agreement, Vendor shall at all times comply with all applicable federal, state and local laws, statutes, regulations, rules, orders and ordinances now in effect or as hereafter enacted, amended or promulgated.
31. **Indemnification.** To the fullest extent permitted by law, each party shall indemnify, defend (at the party's sole expense) and hold harmless the other party, affiliated companies of the other party, their partners, joint

SAMPLE VENDOR ADMINISTRATION AGREEMENT

ventures, representatives, members, designees, officers, directors, shareholders, employees, agents, successors and assigns (“Indemnified Parties”), from and against any and all claims for bodily injury or death, damage to property, demands, damages, actions, causes of action, suits, losses, judgments, obligations and any liabilities, costs and expenses (including, but not limited to, investigative and repair costs, attorneys’ fees and costs and consultants’ fees and costs) (“Claims”) which arise or are in any way connected with the products or services performed or provided by the party or its agents. These indemnity and defense obligations shall apply to any acts or omissions, negligent or willful misconduct of the party, its employees or agents, whether active or passive. Such party shall not be obligated to indemnify and defend the other party for claims found to be due to the sole negligence or willful misconduct of indemnified parties. These indemnification obligations shall survive expiration or other termination of this Agreement.

Insurance and Shipping Charges

32. **Insurance.** Vendor shall maintain insurance coverage adequate to fully protect Vendor, NPP, and Amerinet from any and all claims of any nature for damage to property or for personal injury, including death, made by any person or entity arising from Products and Services sold through Vendor or actions related to Products and Services sold through Vendor (including subcontractors, employees, consultants or agents of Vendor). Upon request of NPP, Vendor shall provide evidence of insurance coverage as specified above.
33. **Product Title, Shipping Charges, Delivery Surcharges.** Inbound freight charges, shipping charges and delivery surcharges, if any, shall be consistent with the terms and conditions of the master purchase agreement executed by the vendor and participating agency.

Product Marketing and GPO-Compliance Requirements

34. **Product Returns.** Notwithstanding the express written terms of the Master Purchase Agreement executed by the Vendor and Participating Agency, each Participating Agency shall have the right to return, without penalty, cost or delay, any excess or unnecessary Product for full original purchase price credit under any of the following circumstances: (a) the Product is received outdated or is otherwise unusable; (b) the Product is received damaged, or is defective or nonconforming; (c) the Product is one which a manufacturer or Vendor specifically authorizes for return through a Vendor; or (d) the Product is recalled, provided product is returned through the Vendor. Vendor shall issue credit to an institution within thirty-days (30-days) of the date of return. Failure to credit Participating Agencies’ accounts within (30) days will result in a penalty of 1% per month added to the credit amount due. If any Product, to be returned through Vendor, was originally sent to the Participating Agency in accordance with the requirements and specifications set forth in the Participating Agency’s purchase order, then the Participating Agency shall bear the freight cost for returning such Product to Vendor. In all other cases, Vendor shall bear the freight cost to return such Product to Vendor. Vendor shall also provide NPP with a copy of its return goods policy prior to the Commencement Date and with copies of any change in such policy during the term of the Agreement.

Other

35. **Electronic Commerce.** Vendor shall support the development of electronic commerce on the internet by and among NPP, the participating agencies and vendor to the extent feasible.
36. **Confidentiality.** Except as may be required by law or as reasonably required to conduct their respective businesses, NPP and Vendor shall not use, publish or disclose or cause anyone else to use, publish or disclose any confidential information obtained in connection with the negotiation and implementation of this Agreement. NPP and Vendor shall maintain the confidentiality of the terms of this Agreement, as well as all negotiations prior to the Effective Date. The above restrictions on disclosure and use shall not apply to any information which (a) is or becomes generally available to the public, other than as a result of disclosure by the party receiving the information pursuant to this Agreement, (b) was made available to other third persons on a non-confidential basis prior to the execution of this Agreement, or (c) becomes available on a non-confidential basis from a third person, which third person was not itself under an obligation to maintain the confidentiality of such information, or (d) is required by law, subpoena or court order to be disclosed. NPP may disclose such

SAMPLE VENDOR ADMINISTRATION AGREEMENT

confidential information to the Shareholders and Participating Agencies and any employee or advisor of NPP in its evaluation, operation or interpretation of this Agreement. NPP and Vendor may disclose the existence of this Agreement and other information, such as the overall savings expected to be realized from this Agreement, subject to the written approval of the other party. The provisions of this clause shall survive the expiration or other termination of this Agreement regardless of the cause of termination.

37. **Independent Contractors.** The parties shall be and act as independent contractors and this Agreement shall not be construed as one of partnership, agency, joint venture or employment. Nothing in this Agreement shall (a) constitute the formation of a partnership, joint venture or employment relationship, or (b) give the right, power or authority to one party to bind the other.
38. **No Collusion.** Vendor represents and warrants that it prepared its proposal to NPP without any collusion whatsoever between Vendor and any other potential or actual Vendors or contractors of NPP.
39. **Unenforceable Provision.** If one or more of the provisions of this Agreement, or the application or interpretation thereof, is determined to be invalid or unenforceable, the remainder of this Agreement shall remain in full force and effect, and the provisions deemed invalid or unenforceable replaced with valid and enforceable provisions which achieve the intent of Vendor and NPP in entering into this Agreement.
40. **Force Majeure.** If either NPP or Vendor is unable to discharge any obligations imposed by this Agreement, the non-complying party shall not be liable in the event such failure is due to a Force Majeure Event. NPP shall have the right to select an alternate or additional Vendor(s) to replace or supplement Vendor, if in NPP's sole and exclusive judgment, Vendor is unable to fully discharge or adequately fulfill its obligations under this Agreement as a result of a Force Majeure Event.
41. **Assignment.** Vendor shall not assign this Agreement without the prior written consent of NPP. For purposes of this Paragraph, "assignment" shall be deemed to include (a) the sale or transfer of any rights or obligations under this Agreement, and (b) a change in the identity of the person(s) or entity(ies) owning a majority of the issued and outstanding voting securities of Vendor and/or Vendor's parent corporation(s). Any attempt by Vendor to assign any of its rights or delegate any of its duties hereunder without the prior written consent of NPP shall be null and void and shall entitle NPP, at its sole and exclusive option, to terminate this Agreement in its entirety. In addition, any such attempted assignment by Vendor shall entitle each Participating Agency, at its sole and exclusive option, to cease purchasing any and all Products from Vendor and to begin purchasing such Products from such other manufacturers or Vendors as the Participating Agency may select. NPP may freely assign and delegate any of its rights and obligations under this Agreement without restriction. Subject to the limitations on assignment set forth in this Paragraph, this Agreement will apply to, be binding in all respects upon, and inure to the benefit of, the successors and permitted assigns of the parties.
42. **Non-Waiver of Provisions.** The party entitled to the benefit of such provision may waive any provision of this Agreement in writing at any time. No waiver of any provision of this Agreement shall be deemed to or shall constitute a waiver of any other provision hereof. Except as expressly provided in this Agreement, no delay on the part of any party in exercising any right, power or privilege shall operate as a waiver thereof. The waiver by either party of any breach or default by the other party shall not be construed to be either a waiver of any subsequent breach or default of any such provision, of the same or different kind, or a waiver of the provision itself.
43. **Section Headings.** All section headings contained herein are for convenience only and shall in no way modify or restrict any of the terms or provisions hereof, or affect the meaning or interpretation of this Agreement.
44. **Signature of Duly Authorized Representative.** Duly authorized representatives or agents of both NPP and Vendor shall sign this Agreement, and such signatures shall be conclusive proof of that person's authority to bind NPP and Vendor, respectively.
45. **Governing Law.** This Agreement shall be governed by and interpreted in accordance with the laws of the State of Washington without regard to choice or conflict of law rules. The parties acknowledge that this

SAMPLE VENDOR ADMINISTRATION AGREEMENT

Agreement evidences a transaction involving interstate commerce. The United States Arbitration Act shall govern the interpretation, enforcement, and proceedings pursuant to the arbitration clause set forth herein.

46. **Arbitration.** Any dispute, claim, or controversy arising out of or relating to this Agreement, or the breach thereof, shall be settled by binding arbitration administered by the American Arbitration Association in accordance with its Commercial Arbitration Rules, and the place of arbitration shall be Seattle, Washington. Each party shall bear its own costs and expenses including, without limitation, attorneys' fees. Each party shall bear an equal share of the arbitrators' and administrative fees of arbitration. Judgment on the award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof. The provisions of this clause shall survive the expiration or other termination of this Agreement regardless of the cause of termination.
47. **Addenda; Entire Agreement.** The general terms as well as all addenda to this agreement are an integral and binding component of this agreement, and are incorporated fully herein by this reference. In the event of any actual or perceived inconsistencies or conflicts between this agreement and any addendum hereto, the provisions of this agreement shall govern. This agreement, together with the addenda, will constitute the full and complete agreement between the parties as to the terms outlined herein. This agreement supersedes and cancels in their entirety any and all previous agreements, discussions, negotiations, commitments and obligations of any sort, whether written or oral, existing between NPP and vendor with respect to the subject matter hereof.
48. **Amendment, modification and cancellation.** The parties may, from time-to-time, agree to modify the terms of this Agreement, including the addition or deletion of products and services offered by Vendor, provided, however, that the amendment is in writing and signed by the NPP Executive Director and by Vendor' authorized representative. Both parties reserve the right to cancel this Agreement in whole or in part if the other party breaches this Agreement and does not correct such failure within thirty-days (30-days) of receiving written notice from the other party specifying such failure or if the other party in any respect repudiates or otherwise breaches the terms hereof.
49. **Authorized use of NPP membership list ("the list").** NPP may, from time to time, provide Vendor with the List. The authorized use shall consist solely and exclusively of the provisions of this paragraph, unless otherwise approved upon in writing by NPP.
- a. Vendor may use the entire NPP Membership List, with the exception of the FireRescue GPO Membership List, for the following purposes:
 - i) sales calls, telemarketing, faxing, email, and mailing promotional materials; and
 - ii) generating in-house reports.
 - b. The Vendor specifically may not:
 - i) copy, modify, alter adapt or transfer the List, in whole or in part, except to engage in the authorized use set forth in this paragraph; or
 - ii) disclose, distribute, rent, sub-license or lease the List to any third party or use the List to provide service for other parties without prior written consent of NPP.
 - c) NPP will in no event be liable for any damages, including but not limited to, direct, indirect, special, incidental, punitive, exemplary or consequential damages, arising out of the vendor's use of or inability to use the list. NPP is not responsible or liable for any costs incurred by the vendor, including but not limited to, those incurred as a result of lost profits or revenue, claims by third parties, or for other similar costs.
 - d) Vendor is solely responsible for any and all damages arising from use of the List by Vendor agents, employees, contractors or anyone else given access to the List by the Vendor. The Licensee shall indemnify NPP and be held unconditionally responsible for any and all damages

SAMPLE VENDOR ADMINISTRATION AGREEMENT

sustained by NPP for such use including, but not limited to, all costs and reasonable attorney's fees related to litigation. Vendor also consents to the entry of an order enjoining any use of the List in violation of the Agreement to prevent further and continuing damage.

50. **Counterparts.** This Agreement may be executed in counterparts all of which together shall constitute one and the same Agreement.

THIS CONTRACT CONTAINS A BINDING ARBITRATION PROVISION WHICH MAY BE ENFORCED BY THE PARTIES.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the date signed by National Purchasing Partner's authorized representative (the "Effective Date").

VENDOR NAME:

AUTHORIZED REPRESENTATIVE:

BY: _____
PRINTED NAME: _____
TITLE: _____
DATE: _____

NAME: **National Purchasing Partners**
ADDRESS: 1100 Olive Way, Suite 1020
Seattle, WA 98101

Note: The NPP mailing address for Contract Activity Report and payment can be found in **Section 23** of this document.

AUTHORIZED REPRESENTATIVE:
BY CONTRACT MANAGER: _____
PRINTED NAME: _____
TITLE: _____
DATE: _____

SAMPLE VENDOR ADMINISTRATION AGREEMENT

VENDOR ADMINISTRATION AGREEMENT ADDENDUM A

Quarterly Reporting: What You Need

National Purchasing Partners vendors are required to submit a quarterly Contract Activity Report according to your organization's Vendor Administration Agreement. Please scroll down to find reporting and administrative fee payment instructions and use the reporting template on www.myNPP.com

Quarterly Volume Sales Report Instructions

Step One: Filling Out the Forms

Even if you have had no sales, please submit a report indicating zero sales for the quarter. Please call our office with any questions you may have regarding the content or format of the Contract Activity Registration form, ask for:

Michael Peterson

1.800.810.3909

Michael.Peterson@myNPP.com

Step Two: Submitting the Forms and Payment

In accordance with your Vendor agreement the Contract Activity Report and Payment is due in the National Purchasing Partners office within 30 days following the end of each quarter.

MAIL ADMINISTRATION FEE PAYMENT TO:

National Purchasing Partners

P.O. Box 46930

St. Louis, MO 63146

EMAIL THE COMPLETED CONTRACT ACTIVITY REPORT TO:

reports@myNPP.com

Contact

If you have any questions, please call our office for assistance. We look forward to speaking with you! Our number is 1.800.810.3909 or email:

Michael Peterson, Michael.Peterson@myNPP.com

Vendor Name	Customer Name	Customer Address	City	State	Vendor Item Description	Manufacturer Item #	Item Price	Item Qty.	Total Amount	Admin Fee Percent	Admin Fee	Begin Date	End Date

Column Data Name	Required	Data Description	Maximum Length/Type
Vendor NPP Number	Required	Vendor ID number assigned to vendor by NPP	Number (7)
Vendor Name	Required		Text (50)
Customer NPP Number	Required	ID number assigned to customer by NPP. (Found in Member List.)	Number (7)
Customer GLN		Global Location Number	Text (13)
Customer Name	Required		Text (50)
Customer Address 1	Required		Text (30)
Customer Address 2			Text (30)
Customer City	Required		Text (30)
Customer State	Required	Post Office State Code i.e. OR for Oregon	Text (2)
Customer Zip Code	Required		Text (10)
Contract Number	Required	Contract Number assigned by NPP	Text (10)
Invoice Number	Required		Text (20)
Invoice Date	Required		Date MM-DD-YYYY format
Vendor Item Number	Required		Text (20)
Vendor Item Description	Required		Text (50)
Manufacturer Item Number	Required		Text (20)

Column Data Name	Required	Data Description	Maximum Length/Type
Manufacturer Item Name	Required		Text (50)
Item UOM (Unit of Measure)	Required	Selling Unit i.e. CASE, BOX, EACH	Text (20)
Item UOM Conversion	Required	Number of items per UOM i.e. 12 items in a CASE, 36 items in a CASE. (EACH is always equal to 1)	Number
Item Price	Required	Price per UOM i.e. \$120.00 per case	Number (up to 2 decimal places)
Item Quantity	Required	Number of UOM i.e. 10 cases, 10 Each, 6 Boxes	Number
Total Amount	Required	Amount received from customer	Number (up to 2 decimal places)
Admin. Fee Percent	Required	Percent of Total Amount per Contract agreement for NPP	Number
Admin. Fee	Required	Contract agreement amount for NPP	Number (up to 2 decimal places)
Begin Date	Required	Reporting Period Begin Date	Date in MM-DD-YYYY format
End Date	Required	Reporting End Date	Date in MM-DD-YYYY format

Oregon's Incorporated Cities included in the intent of this Cooperative Procurement ITB.

Adair Village	Donald	John Day	Nyssa	Tangent
Adams	Drain	Johnson City	Oakland	The Dalles
Adrian	Dufur	Jordan Valley	Oakridge	Tigard
Albany	Dundee	Joseph	Ontario	Tillamook
Amity	Dunes City	Junction City	Oregon City	Toledo
Antelope	Durham	Keizer	Paisley	Troutdale
Arlington	Eagle Point	King City	Pendleton	Tualatin
Ashland	Echo	Klamath Falls	Philomath	Turner
Astoria	Elgin	La Grande	Phoenix	Ukiah
Athena	Elkton	La Pine	Pilot Rock	Umatilla
Aumsville	Enterprise	Lafayette	Port Orford	Union
Aurora	Estacada	Lake Oswego	Portland	Unity
Baker City	Eugene	Lakeside	Powers	Vale
Bandon	Fairview	Lakeview	Prairie City	Veneta
Banks	Falls City	Lebanon	Prescott	Vernonia
Barlow	Florence	Lexington	Prineville	Waldport
Bay City	Forest Grove	Lincoln City	Rainier	Wallowa
Beaverton	Fossil	Lonerock	Redmond	Warrenton
Bend	Garbaldi	Long Creek	Reedsport	Wasco
Boardman	Gaston	Lostine	Richland	Waterloo
Bonanza	Gates	Lowell	Riddle	West Linn
Brookings	Gearhart	Lyons	Rivergrove	Westfir
Brownsville	Gervais	Madras	Rockaway	Weston
Burns	Gladstone	Malin	Rogue Beach	Wheeler
Butte Falls	Glendale	Manzanita	Roseburg	Willamina
Canby	Gold Beach	Maupin	Rufus	Wilsonville
Cannon Beach	Gold Hill	Maywood Park	Salem	Winston
Canyon City	Granite	McMinnville	Scappoose	Wood Village
Canyonville	Grants Pass	Medford	Scio	Woodburn
Carlton	Grass Valley	Merrill	Scott Mills	Yachats
Cascade Locks	Greenhorn	Metolius	Seaside	Yamhill
Cave Junction	Gresham	Mill City	Seneca	Yoncalla
Central Point	Haines	Millersburg	Shady Cove	
Chiloquin	Halfway	Milton-Freewater	Shaniko	
Clatskanie	Halsey	Milwaukie	Sheridan	
Coburg	Harrisburg	Mitchell	Sherwood	
Columbia City	Helix	Molalla	Siletz	
Condon	Heppner	Monmouth	Silverton	
Coos Bay	Hermiston	Monroe	Sisters	
Coquille	Hillsboro	Monument	Sodaville	
Cornelius	Hines	Moro	Spray	
Corvallis	Hood River	Mosier	Springfield	
Cottage Grove	Hubbard	Mt. Angel	St. Helens	
Cove	Huntington	Mt. Vernon	St. Paul	
Creswell	Idanha	Myrtle Creek	Stanfield	
Culver	Imbler	Myrtle Point	Stayton	
Dallas	Independence	Nehalem	Sublimity	
Damascas	lone	Newberg	Summerville	
Dayton	Irrigon	Newport	Sumpter	
Dayville	Island City	North Bend	Sutherlin	
Depoe Bay	Jacksonville	North Plains	Sweet Home	
Detroit	Jefferson	North Powder	Talent	