



Part I

Non –Hazardous Statement of Work for **Procure 4000 gallon water truck**

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1.0 INTRODUCTION / BACKGROUND

As a prime contractor to the U.S. Department of Energy (DOE), MSA, LLC is focusing on Infrastructure support of the environmental cleanup of DOE's Hanford Site.

This statement of work identifies the Contractor's scope as it relates to the procurement of one each 4000 gallon water truck.

The Contractor shall provide one 4000 gallon water truck.

2.0 Task Description

The work products to be provided, including any specific MSA, LLC standards and requirements, required for the successful completion of this work activity includes procurement of one each 4000 gallon water truck.

Proposal **shall include cut sheets** of proposed equipment showing they meet the requirements. If the proposed equipment does not meet a specific requirement, the contractor shall provide proposed substitution information.

The unit shall be new (unused), current standard production model. Unit must be the current model built for the U.S. market.

All accessories as listed herein shall be identical to those regularly supplied to the dealer by the original equipment manufacturer, and shall be of identical quality and design as those normally installed on a



unit for sale through normal commercial channels. Unit supplied shall have all the latest changes and features offered as standard whether called for in these specifications or not.



3.0 Acceptance Criteria

One each 4000 gallon water truck.

Buyer reserves the right to perform a pre-shipping inspection by the Buyer prior to delivery.

The 4000 gallon water truck shall meet all contractual requirements included in this Statement of Work and Specification

4.0 Special Requirements

Warranty and service locations must be within 150 miles of Richland, Washington.

The water truck will be covered by an extended three (3) year warranty. This warranty will apply to the chassis and the service body.

Contractor shall provide four hours of training on proper operation and overview of mechanical systems.

Contractor shall ensure that all controls are readily accessible, protected from damage, and clearly and properly identified as to their function.

5.0 Organizational Interfaces

The Contractor shall interface with a Buyer's Technical Representative (BTR) who will be appointed at time of contract award or the MSA Contract Specialist prior to contract award.

6.0 Site Coordination Requirements

Contractor site coordination and Interface Requirements are covered by the contract specialist and the BTR.

7.0 Technical Requirements

Contractor will provide one each 4000 gallon water truck per the specifications in attachment 1.

All work shall be performed in strict accordance with the following requirements, design criteria, national codes and standards, any other documents, which by this reference, are made a part of the Statement of work.

8.0 Codes and Standards

All components shall be designed, procured, tested, and/or inspected in accordance with recognized industry codes or standards. It is the Contractor's responsibility to identify all applicable codes or standards that apply to each component. The following codes and standards shall be used as a minimum:

Federal Regulations



10CFR851, "Worker Safety and Health Program"

29CFR1926 sub parts N and O

9.0 PERSONNEL REQUIREMENTS

9.1 Training and Qualification

Contractor shall ensure that its personnel meet and maintain the appropriate training, qualification and certification requirements. Hanford site-specific general training requirements to safely perform any on site work are identified below.

Currently no access to the Hanford site is required.

9.2 Security and Badging Requirements

For any on site work, see Special Provisions – On Site Services SP-5 for details.

A. The Contractor shall wear a MSA-issued security badge identifying himself/herself. A minimum of two working days advance notice is needed for site badging.

Contractor employees (including delivery drivers) will be required to submit to vehicle searches and not personally carry or transport certain prohibited articles.

9.3 Site Access and Work Hours

Work will be done on an 8-9's schedule. The standard workday shall consist of nine (9) hours of work between 7:00 AM and 4:30 PM, with one-half hour designated as an unpaid period for lunch. An eight (8) hour workday is substituted on alternate working Fridays, and no work occurs on the alternate non-working Friday. If schedule alternative is required BTR will communicate.

10.0 ENVIRONMENTAL, SAFETY, HEALTH, AND QUALITY REQUIREMENTS

The contractor shall perform work safely in accordance with the ISMS/EMS principles, in a manner that ensures adequate protection for personnel, the public, and the environment, and shall be accountable for the safe and environmentally protective performance of the Work. The Contractor shall exercise a degree of care commensurate with the work and the associated hazards.

10.1 Safety Requirements

For off-site work, the Contractor and its subcontractors shall ensure their personnel work safety and shall be responsible to comply with State and Federal requirement or regulations.

10.2 Quality Assurance and Control

Contractor shall be responsible for performing quality workmanship and shall conduct the quality control measures necessary to ensure work conforms to requirements above.



All items and processes are subject to review, inspection or surveillance by Buyer at the Contractor's facility, or any lower-tier subcontractor's facility.

Equipment requiring calibration shall be periodically calibrated to assure reliable results.

10.3 Quality Assurance/Inspection Requirements

The following quality assurance requirements are imposed:

10.4 Control of Graded Fasteners

The provisions stated below are the minimum Department of Energy requirements for high strength graded fasteners produced in compliance with national consensus standards (e.g., SAE, ASTM, ASME).

1. Fasteners shall exhibit grade marks and manufacturer's identification symbols (headmarks) as required in the specifications referenced in the Purchase Order/Contract Order.
2. Any fasteners supplied with headmarks matching those displayed on the attached Suspect/Counterfeit Fastener Headmark list, or facsimiles thereof, shall be deemed to be unacceptable under the terms of this Purchase Order/Contract Order.

Suspect Bolt Head Marking Card

[http://www.hanford.gov/pmm/files.cfm/Suspect Bolt Head Marking Card.pdf](http://www.hanford.gov/pmm/files.cfm/Suspect_Bolt_Head_Marking_Card.pdf)

Stainless Steel Fastener Headmark List

[http://www.hanford.gov/pmm/files.cfm/Suspect Stainless Steel Fastener Headmark List.pdf](http://www.hanford.gov/pmm/files.cfm/Suspect_Stainless_Steel_Fastener_Headmark_List.pdf)

3. When requested by the Buyer, the Supplier shall provide a legible and reproducible copy of the manufacturer's Certified Material Test Reports (CMTR). These CMTRs shall report the values of the actual chemical and physical tests performed on the represented fastener lot/material heat. Fastener packaging/labeling shall be traceable by lot number or other positive means to the CMTRs.
4. Fasteners shall be inspected to verify compliance with the Purchase Order/Contract Order requirements. Additionally, fasteners may also be subjected to destructive testing.
5. When requested by the Buyer, the Supplier shall provide a Certificate of Conformance which must certify conformance and traceability of supplied materials to the subject Purchase Order/Contract Order. The document must be legible and reproducible.

10.5 Procurement of Potentially Suspect or Counterfeit Items

Notwithstanding any other provisions of this agreement, the Supplier warrants that all items provided to the Contractor shall be genuine, new and unused unless otherwise specified in writing by the Contractor. Supplier further warrants that all items used by the Supplier during the performance of work for the Hanford Site, include all genuine, original, and new components, or are otherwise suitable for the intended purpose. Furthermore, the Supplier shall indemnify the Contractor, its agents, and third parties for any financial loss, injury, or property damage resulting directly or indirectly from material,



components, or parts that are not genuine, original, and unused, or not otherwise suitable for the intended purpose. This includes, but is not limited to, materials that are defective, suspect, or counterfeit; materials that have been provided under false pretenses; and materials or items that are materially altered, damaged, deteriorated, degraded, or result in product failure.

Types of material, parts, and components known to have been misrepresented include (but are not limited to) fasteners; hoisting, shackles, turnbuckles, cable clamps, wire rope, rigging, and lifting equipment; cranes; hoists; valves; pipe and fittings; electrical equipment and devices; plate, bar, shapes, channel members, and other heat treated materials and structural items; welding rod and electrodes; and computer memory modules. The Supplier's warranty also extends to labels and/or trademarks or logos affixed, or designed to be affixed, to items supplied or delivered to the Contractor. In addition, because falsification of information or documentation may constitute criminal conduct, the Contractor may reject and retain such information or items, at no cost, and identify, segregate, and report such information or activities to cognizant Department of Energy officials.

Supplier shall provide a written statement that "all items furnished under this Purchase Order/Contract Order are genuine (i.e., not counterfeit) and match the quality, test reports, markings and/or fitness for use required by the Purchase Order/Contract Order.

The statement shall be on supplier letterhead and signed by an authorized agent of the supplier.

Any materials furnished as part of this Purchase Order/Contract Order which have been previously found to be suspect/counterfeit by the Department of Energy shall not be accepted. For further information on suspect/counterfeit items, reference the Department of Energy (DOE) Guide DOE G 414.1-3

DOE Guide web address:

<http://www.directives.doe.gov/pdfs/doe/doetext/neword/414/g4141-3.pdf>

10.6 Certificate of Conformance

The Supplier shall provide a legible/reproducible Certification of Conformance. Supplier's authorized representative responsible for quality shall sign the Certification of Conformance.

This Certification of Conformance shall, as a minimum:

1. Identify the appropriate Purchase Order/Contract Order number under which the material, equipment, item or service is being supplied.
2. Each Order/shipment shall include a C of C unique to that shipment.
3. The quantity of each Line Item shipped shall be identified on the C of C.
4. The COC shall identify the specific procurement requirements to be met by the purchased item or service. The procurement requirements identified shall include any approved changes, waivers, or deviations applicable to the item or service.
5. The COC shall be signed or otherwise authenticated by a supplier's representative.



10.7 Inspection and Test Reports (As applicable)

The Contractor shall submit legible, reproducible copies of Inspection/Test Reports.

The report(s) shall include the following:

1. Identification of the applicable inspection and/or test procedure utilized.
2. Resulting data for all characteristics evaluated, as required by the governing inspection/test procedure.
3. Traceability to the item inspected/tested, (i.e., serial number, part number, lot number, etc.).
4. Signature of the Contractor's authorized representative or agency which performed the inspections/tests.

One copy of the documentation, unless otherwise specified, shall accompany the applicable item(s) shipped.

10.8 Pre-Shipping Inspection

Contractor shall provide the BTR an opportunity to inspect the unit prior to delivery.

11.0 DELIVERABLES, PROJECT CONTROLS, MILESTONES, AND PERFORMANCE SCHEDULE REQUIREMENTS

11.1 Deliverables

Deliverables include:

- One each 4000 gallon water truck
- Two copies of the manufacturer's parts list and operations manuals
- Material Safety Data Sheets (MSDS) for all liquids, grease, etc. used in each unit
- Standard warranty on assembly.
- Certification that "all items furnished under this Contract are genuine (i.e. not counterfeit) and match the quality, test reports, markings, and/or fitness for use required by the Contract"

11.2 Schedule

Complete delivery of one each 4000 gallon water truck no later than 9/30/2010.



ATTACHMENT ONE

Specification for a 4000 gallon water truck

The unit will be a new standard production model, and shall be completely prepared for customer and sold through an authorized factory franchised dealer. The vendor shall provide full standard warranty (as delivered with options) on new unit.

Truck must be fully WA State and DOT compliant.

NOTE: warranty and factory specifications must be supplied at time of bid or bid will be considered incomplete.

Any accessories listed herein shall be identical to those regularly supplied to a dealer by the original equipment manufacturer, and shall be of identical quality and design as those normally installed on unit for sale through normal commercial channels.

MSA Safety "B" clauses to be included:

B76 - Procurement of potentially Suspect or Counterfeit Items

B79 – Certificate of Conformance

Items to include with bid are:

Proof that vendor is an authorized distributor

SPECIFICATIONS

WATER TRUCK SPECIFICATIONS

Water Truck General Requirements:	
56,000 lbs. G.C.W., 18,000 lbs. front axle; 38,000 lbs. rear tandem axle	
Diesel engine minimum requirements – <ul style="list-style-type: none"> • 300HP • 860 ft. lbs. Torque 	
Full flow-type oil filter.	
Coolant to –40° F.	
Allison or equivalent automatic transmission	



Air brakes with Bendix heated air dryer	
Fuel Tank: aluminum 70 gallon minimum	
5" single vertical exhaust stack, curbside	
Mud flaps front and rear of duals	
Work Lights <ul style="list-style-type: none">• 2 pan and tilt spot lights remotely operated from cab, one on top of cab, one on top of tank at the rear.• One work light over hydraulic pump	
Two (2) each front and two (2) each rear frame-mounted tow hooks.	
Variable geometry turbo braking. (turbo charger supplied exhaust type brake) or standard exhaust brake	
Anti-spray skirting along rear fenders	
Cab	
Air ride drivers seat with arm rest	
Air conditioning	
AM/FM stereo	
Tilt wheel	
Inside sun visor	
Power steering	
Heated mirrors with convex spot mirrors	
Interior panel for water tank functions to be illuminated for night time operation	
DOT approved seat belts	
Armrests on both doors	
High capacity heater/defroster	
Dual electric windshield wipers with interval control and electric windshield washers	
Interior dome light automatic with door opening—both right and left.	
Exterior grab handles each side.	
Cigarette lighter (used to plug in lights, etc.)	
Tinted glass—all windows	
Paint color - white	
Premium interior with full height panel insulation	
Halogen headlights	



Two (2) each amber strobe lights on cab	
Back-Up alarm	
4,000 Gallon Water System installed as follows:	
15'-3" long x 96" wide x 60" tall Oval style (approximate dimensions)	
3/16" stainless steel tank shell	
¼" steel sub-frame, 6" high with cross bracing	
(2) interior horizontal baffles with longitudinal baffle welded to horizontal baffles	
Dished and welded heads, both sides.	
2- 24" Circular Man way with curb and anti skid strips. Sealed.	
2.5" Anti-siphon hydrant fill with 2.5"x25' hose with adaptor and cap	
Rear ladder	
Spring mounted front and center, solid mounted at rear	
Vulcanized rubber cushion strips	
Front and rear sight tubes	
Full LED DOT lighting on tanks	
Color backup camera system	
Heavy Duty Rear Push Block Storage Compartment installed as follows:	
Push block reinforced and welded to truck frame, box in rear and reinforce	
Expanded metal bottom	
¼" steel tread plate lid with stainless steel hinge	
Cable step for access to push block	
Push block to be constructed so it can be used as a push block in case the truck becomes stuck	



Pressure Manifold installed as follows:	
4"x 4" pressure manifold with 1-1/2" ball valve outlet, pressure relief valve (re-circulating), couplings for front, rear, and side sprays	
Water Pump, Hydraulic Drive Load Sensing System installed as follows:	
Berkeley B3ZRMS water pump with ceramic seal, frame mounted <ul style="list-style-type: none"> • 75 psi • 750 gpm • 	
Variable displacement piston pump, adequately sized for water pump.	
Hydraulic proportional control valve with aluminum valve body. Amplifier control module with twist style volume control, rocker switch on/off control, and plug in harness	
Inline system relief valve	
Anti-cavitation check valve	
Adequately sized for maximum water pump performance.	
Minimum 8 gallon frame mount hydraulic tank with sight and temperature gauge and shut-off valve	
Heat exchanger with 12v fan thermostatic temperature controller or Hydro style cooler.	
10 micron filter with restriction gauge	
Electronic engine throttle control	
Any rotating equipment easily accessible by personnel shall have safety guards	
Control System installed as follows:	
In-cab control tower with individual switches for air front, rear and side spray nozzles.	
Power Tilt Side Spray Actuator installed as follows:	



Swivel spray with 3" adjustable coupler, air actuated (8" throw with 3/4" ram). Three way control switch mounted in-cab.	
Elevates side spray nozzle vertically	
Monitor nozzle	
Elkhart Sidewinder Electric (or equiv) <ul style="list-style-type: none"> • 100 gpm nozzle • Spray nozzle with remotely adjustable pattern (mist to stream) • In Cab joy stick for operation • 2" Elkhart electronic high speed valve • Quick connect with plugs (self locking cam locks) • Mounting location TBD 	
1-1/2" x 50' hose reel installed as follows:	
12v electric rewind with momentary push button control	
4-way roller bracket	
Twist type spray nozzle (NST)	
Mounted on rear of tank	
1/4 turn hose reel isolation valve	
Hose reel blow out installed as follows:	
Single 3/8" synflex air line from main air source	
Plumbed into hose reel	
3/8" ball valve control	
2-1/2" fire hose connection with shutoff valve	
Other:	
Install front spray bar bumper height with (2) air operated spray heads, (1) on each corner, 120 degree spray type controlled from inside	



the cab	
Install 3" rear spray bar bumper height with: <ul style="list-style-type: none">• (2) air operated spray heads, (1) on each corner, 120 degree spray type controlled from inside the cab• ¾" tap with ¼ turn valve with hose nipple and cap• ¼ turn isolation valve to rear spray bar	
Install (1) side spray nozzle, street side mid truck, fan type, power tilt up and down, controlled from inside the cab. Full flow ¼ turn isolation valve.	
Install front center spray nozzle, front bumper or hood height, 180 degrees, power adjustment in all directions, controlled from inside the cab. One full flow, ¼ turn isolation valve for line to front nozzles.	
air controls are required for power spray nozzles	
6" butterfly dump valve with female pipe thread coupler for attaching extension hose adaptor located at center rear of tank	
Tank Hydrant fill pipe to have 2-1/2" NST female fire hose connection	



ATTACHMENT 2

SUBMITTAL REGISTER

Submittal Register Definitions

1. Numerical submittal sequence number: Example: 1, 2, 3, 4 ... (or organized by topics and project assigned coding structure)
2. Number and Type of Copies (No / Type Copies): Example: E (Electronic only), 6 (Six Hard Copies), 1, E (One Hard Copy, and Electronic)
3. Submittal Type:
 - APP** = For Approval (the submittal is provided with the intent that FH will review and approve the submittal prior to the contractor proceeding with work).
 - ACC** = For Acceptance (the submittal is provided for information with the intent that FH will accept the submittal)
 - AFW** = Approval for Work (the submittal is provided with the intent that FH authorizes work to be performed to the submittal)
4. Format: this describes the type of submittal required:
 - DWG** An AutoCAD drawing using the Hanford standard formatting

(See [HNF-14660](#), *Off-Site Vendor Directions of the Preparation and Control of Engineering Drawings*).
 - MFC** Microsoft Format Compatible application (Word, Excel, Access, PowerPoint)
 - P3** A Primavera Project Planner schedule
 - GEN** General or Open Format/Media
 - PDF** Adobe Acrobat (Portable Document Format)
 - HC** Hard copy
 - EM** Email
5. Document Family:
 - CON** Construction



ENG	Engineering
FAB	Fabrication
H&S	Health and Safety
PRO	Procurement
QAC	Quality
PROJ	Project
RAD	Radiation Protection
VI	Vendor Information
OTHER	Other

6. Description / Document Title: Title or general description of the document.
7. Submittal Date: Actual date or number of Calendar Days before or after a milestone that a submittal is due from the Contractor: Example: June 1, 2005 or CD + 60 [60 days after Conceptual Design Complete]

CD	Conceptual Design Complete
PD	Preliminary Design Complete
FD	Final Design Complete
M	Mobilization
SC	Start of Construction
EC	End of Construction
A	Date of Award
D	Delivery
8. Buyer Review Time (Work Days): Example: 3 Days
9. Contract Reference: Cross reference to the Contract requirement that defines this submittal: Example: SOW 3.1.2.



Mission Support Alliance

Statement of Work:
Title: 4000 gallon Water Truck



Submittal Register:

The Contractor shall meet the required schedule and provide the documents specified in accordance with the following submittals.

Contract Number and Name:						Revision:	
1. Submittal No.	2. No. of Copies*	3. Submittal Type	4. Format	5. Document Family(i es)	6. Description / Document Title	7. Submittal Date (Calendar Days)	8. Buyer Review Time
1	2	ACC	EM or GEN	PRO	Notice of Delivery	D - 7	NA
2	2	ACC	PDF or HC	QAC	Inspection and Test Reports to include a Leak Test of the Water Tank	M - 7	NA
3	1	ACC	PDF or HC	VI	Manufacturer's operating and parts and service manuals or other documents necessary for proper operation and maintenance (proprietary information need not be submitted.)	D	NA
4	1	ACC	HC	QAC	Certificate of Conformance (C of C)	D	NA
5	1	ACC	HC	QAC	Inspection coupons, certicards, and/or warranty identification	D	NA