



Form GSOP 1-PIN (04/98)

STATE OF CALIFORNIA
Department of General Services - Office of Procurement
PURCHASE ORDER

Purchase Order No.	Rev.	Date
62046		6/10/2008

Supplier No.	Solicitation No.	Delivery Date	FOB Point	Invoice Terms
756620	56780	270 Days ARO	Destination	

CENTRAL STATES FIRE APPARATUS
600 3RD STREET
LYONS, SD 57041
Attn: DOUG FELDMAN

S CA STATE MILITARY DEPT	C MILITARY DEPT	P-09
h T DEPT OF LOGISTICS	h a T ACCOUNTING (916)854-3695	
i o 4407 DOOLITTLE AVE BLDG 9	r o PO BOX 269101	
p LOS ALAMITOS, CA 90720	g e SACRAMENTO, CA 95826-9101	
Attn: CHRISTINA MANZANO		

Agency Billing	Agency Purchase Estimate	Purchase Estimate	Revision
46052	V0185	66942	0

Phone: 916-797-1441

Agency Contact	Phone	Date Received
DENISE SHEYA	916-854-3366	

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension
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www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf

THE FOLLOWING INFORMATION IS PROVIDED FOR AGENCY USE ONLY:

PRIME CONTRACTOR: NS

APPLICATION OF DVBE INCENTIVE RESULTED IN AWARD: NO

1	1	EA	1096-000-0380-8	TRUCK CAB & CHASSIS WITH WATER TANK MOBILE WATER SUPPLY FIRE APPARATUS (TRUCK) IN ACCORDANCE WITH BID SPECIFICATION #4210-08BS-001 (10 PAGES) DATED APRIL 1, 2008.	214,046.0000	214,046.00
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PLEASE NOTE

The truck offered shall be in accordance with the requirements of this invitation for bid. Features that are not specifically prohibited by the bid specification but are a part of the manufacturer's standard commercial product or normally supplied shall be included in the unit being furnished. A standard commercial product is a product which has been sold or is being currently offered for sale on the commercial market through advertisements or manufacturer's catalogs or brochures and represents the latest production model.

Brand: CENTRAL STATE FIRE APPARATUS
Model: TANKER

PO Miscellaneous Charges and Discounts	Dollar Value
BATCH ADJUSTMENT (CHARGE)	7.00

Total Value: 214,053.00

Sales and/or use tax to be extra unless noted above

Buyer	Phone	BOC Number
TIM PATTON	916-375-4412	

STATE OF CALIFORNIA

Department of General Services - Office of Procurement

PURCHASE ORDER CONTINUATION

Form GSOP 2-PIN (04/98)

Page 2 (Last)

<i>Purchase Order No.</i>	<i>Revision</i>	<i>Date</i>	<i>Supplier No.</i>	<i>Supplier Name</i>
62046		6/10/2008	756620	CENTRAL STATES FIRE APPARATUS

<i>Item No.</i>	<i>Quantity</i>	<i>Unit</i>	<i>Commodity Code</i>	<i>Description</i>	<i>Unit Price</i>	<i>Extension</i>
<p>ATTACHMENTS THE FOLLOWING ATTACHED DOCUMENTS ARE PART OF THIS PURCHASE ORDER:</p> <ol style="list-style-type: none"> SPECIFICATION #4210-08BS-001 (10 PAGES) ADMINISTRATIVE REQUIREMENTS (4 PAGES) QUESTIONNAIRE (7 PAGES) <p>F.O.B. DESTINATION For the purpose of this purchase order, only F.O.B. Destination will be accepted.</p> <p>CHANGE ORDERS : This Purchase Order may be amended, modified, or terminated at any time by mutual agreement of the parties in writing. Change orders amending, modifying or terminating the Purchase Order, including any modifications of the compensation payable, may be issued only by the State Procurement Officer. All such change orders shall be in writing and issued only upon written concurrence of the supplier. Termination, as that term is used in this section, does not include the following provisions as stated in the General Provisions (GSPD-401 Non-IT Commodities, Revised and Effective 4/12/2007): Page 3 - Section 22: Termination for Non-Appropriation of Funds, Page 3 - Section 23: Termination for the Convenience of the State, and Page 3 - Section 24: Termination for Default.</p> <p>FEDERAL EXCISE TAX A Federal Excise Tax Exemption Certificate shall accompany this purchase order.</p> <p>CALIFORNIA TIRE FEE ACT A fee of \$1.75 per tire is added to the purchase order to cover the costs imposed by the California Tire Fee Act (California Public Resources Code Section 42885 et. seq.).</p> <p>This Purchase order has been registered into the state contact and procurement registration system (https://www.scprs.dgs.ca.gov/). The registration number is 89400608310708.</p>						



STATE OF CALIFORNIA
BID SPECIFICATION
TRUCK, MOBILE WATER SUPPLY FIRE APPARATUS

4210-08BS-001

1 SCOPE

This document establishes the requirements and specifications for a mobile water supply fire apparatus (truck). In addition to the water tank, the truck shall consist of a Fire Pump, Foam Proportioning System and associated equipment. The Truck shall be used by California State Military Department, Los Alamitos Joint Force Training Base Fire Department.

2 APPLICABLE SPECIFICATIONS / STANDARDS / CODES

- 2.1 Specifications and standards referenced in this document in effect on the opening of the invitation for bid, form a part of this specification.
- 2.2 Bidder shall comply with requirements of following standards and codes as they apply:
- 2.2.1 National Fire Protection Association (NFPA) 1901 standard latest edition.
 - 2.2.2 California Vehicle Code.
 - 2.2.3 Environmental Protection Agency (EPA) and/or California Air Resources Board (ARB).
 - 2.2.4 Society of Automotive Engineers (SAE) and/or International standards Organization (ISO).

3 REQUIREMENTS

- 3.1 Unless otherwise specified, the truck shall be built to comply with NFPA 1901 latest edition with chapters (1, 2, 3, 4, 7, 12, 13, 14, 15, 16, 19, & 21) as applied to meet this specification and requirements.
- 3.2 Mobile Water Supply Fire Apparatus
- 3.2.1 Shall comply with NFPA 1901 Chapter 7 and the following requirements.
 - 3.2.2 Equipment Storage.
 - 3.2.3 Hose Storage.
 - 3.2.4 Suction Hose.
- 3.3 Chassis
- 3.3.1 Shall comply with NFPA 1901 Chapter 12 and the following requirements.
 - 3.3.2 Shall be a commercially available unit.
 - 3.3.3 The gross vehicle weight rating shall be equal or greater than 56,000 pounds.
 - 3.3.4 Engine shall be diesel fueled with a minimum of 330 net brake horsepower.
 - Shall be equipped with two (2) engine compartment lights under the engine hood, of which the switches are an integral part.
 - 3.3.5 Shall be equipped with an electronically activated exhaust brake with the control located on the instrument panel within easy reach of the driver.
 - 3.3.6 Shall be equipped with a diesel particulate filter and a diesel oxidation catalyst to meet current EPA/ARB emission standards.
 - 3.3.7 Shall be equipped with a minimum 50 gallon fuel tank or per NFPA chapter 12, section 12.3.4.1 whichever is greater.

- 3.3.8** Shall be equipped with a 5-speed forward, electronic torque converting automatic transmission (ref: Allison, model 3000 EVS).
- Shall be equipped with two (2) power-take-off (PTO) openings located on left side and top of converter housing (positions 8 o'clock and 4 o'clock).
 - Shall be equipped with a transmission temperature gauge or warning light on cab instrument panel.
 - Shall be equipped with a "T" handle shift module mounted to right of driver. The shift position indicator shall be seen in dark operation.
 - Shall be equipped with a transmission oil cooler.
- 3.3.9** Shall be equipped with a dual hydraulically driven steering system.
- Shall be equipped with a tilt and telescoping steering wheel.
- 3.3.10** Shall be equipped with chromed lugnuts or covers for all wheels.
- 3.3.11** Shall be equipped with an air-conditioning unit and heater.
- 3.4** Low Voltage Electrical Systems and Warning Devices
- 3.4.1** Shall comply with NFPA 1901 Chapter 13 and the following requirements.
- 3.4.2** Shall be equipped with a 12-volt alternator electrical system.
- 3.4.3** Shall be equipped with a master battery switch inside the cab within reach of the driver to activate the battery system.
- 3.4.4** Shall be equipped with battery charging receptacle on the left side pump panel.
- 3.4.5** Shall be equipped with "Red" warning lights.
- 3.4.6** Shall be equipped with four (4) clear LED step lights - one (1) light at each cab door, one (1) light per doorstep.
- 3.4.7** Shall be equipped with two-pair body side scene lights (one for driver side and one for passenger side) and be controlled in cab.
- 3.4.8** Shall be equipped with "LED" lighting package for emergency warning lights.
- 3.5** Driving and Crew Areas (Cab)
- 3.5.1** Shall comply with NFPA 1901 Chapter 14 and the following requirements.
- 3.5.2** The seating capacity shall be two (2).
- Shall be equipped with an air-suspension driver seat and a non-suspension officer seat.
- 3.5.3** Shall be equipped but not be limited to the following:
- Tinted glass in all windows.
 - Black rubber floor mats.
 - Dual sun-visors.
 - Daytime running lights.
 - Gray vinyl upholstery.

- 3.5.4 Shall be equipped with breakaway type brackets, "West Coast" style approximately 14-1/2" x 7-1/2" mirrors providing 110 in² viewing area.
- Mirrors shall be "remote-controlled" from driver side.
- 3.5.5 Shall be equipped with a 10" high, stainless steel bumper attached to the front of the frame.
- A 9" channel shall be mounted directly behind the bumper for additional strength.
 - The bumper shall be extended 16" from front face of cab.
- 3.5.6 Shall be equipped with an aluminum hose tray located in the center of the bumper extension. The bottom of the tray shall be grated with drain holes.
- The tray shall have a minimum capacity of 100' of 1-1/2" double jacket cotton-polyester hose.
- 3.5.7 Shall be equipped with a pair of 1-7/8" wide black nylon velcro straps for securing the hose in the tray.
- 3.5.8 Shall be equipped with a bright aluminum gravel pan made out of treadplate located between the bumper and cab face.
- Shall be properly supported from the underside to prevent flexing and vibration.
- 3.5.9 In addition to the Instrumentation and controls specified on NFPA 1901 section 14.3.4, the following instruments/controls shall be provided:
- Engine hourmeter.
 - Air brake pressure gauge.
 - Air restriction indicator.
 - Circuit breakers for overload protection of electric circuits.
 - Keyless type ignition switch.
 - Windshield wiper control with intermittent feature.
- 3.6 Body, Compartments, and Equipment Mounting
- 3.6.1 Shall comply with NFPA 1901 Chapter 15 and the following requirements.
- 3.6.2 Shall be equipped with body and compartments made out of minimum 1/8" aluminum (ref: 5052-H32 aluminum).
- 3.6.3 Side compartments shall be an integral assembly with the rear fenders.
- 3.6.4 Shall be equipped with circular fender liners for prevention of rust pockets and ease of maintenance.
- 3.6.5 Compartment flooring shall be of the sweep out design with the floor higher than the compartment door lip.

- 3.6.6** The compartment door opening shall be framed by flanging the edges in 1-3/4" and bending out again 3/4" to form an angle.
- 3.6.7** Shall be equipped with drip protection above the doors.
- 3.6.8** Shall be equipped with front facing compartment walls covered with bright aluminum treadplate.
- 3.6.9** Shall be equipped with underbody support system capable of supporting minimum of 500 pounds.
- 3.6.10** Shall be equipped with compartments for both driver and passenger sides ahead of the rear wheels and behind rear wheels as follows:
- One (1) each vertically hinged, double door compartments with interior dimensions of 50-1/2" wide x 40-5/8" high x 25-7/8" deep in the lower 26" and 12" deep in the remaining upper portion shall be equipped ahead of the rear wheels. The clear door opening of these compartments shall be 46" wide x 36" high.
 - One (1) each vertically hinged, single door compartments with interior dimensions of 16-1/2" wide x 26" high x 25-7/8" deep in the lower 26" and 12" deep in the remaining upper portion shall be equipped behind rear wheels. The clear door opening of these compartments shall be 15" wide x 25" high.
 - Hard suction hose storage compartments as an integral part of compartments. Access to the hose shall be through a vertically hinged stainless steel door at the rear.
 - Positive door holders shall be installed in all compartments.
- 3.6.11** Shall be equipped with lap style, double panel doors, using a "C" section reinforcement installed between the outer and interior panels.
- Doors shall be made with polished stainless steel continuous hinge bolted or screwed on with stainless steel fasteners. A strip of dielectric isolation tape shall be provided between the hinge and door jamb.
 - 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.
 - Doors shall be latched with recessed, polished stainless steel "D" ring handles and locks (ref: Eberhard 106). A rubber gasket shall be provided between the "D" ring handle and the door.
- 3.6.12** Shall be equipped with four (4) shelves, with a minimum capacity of 215 pounds.
- Each shelf shall be infinitely adjustable by means of a threaded fastener, which slides in a track.
 - The location shall be to be determined at pre-construction conference.

- Shall be equipped with four (4) sets of tracks for mounting shelf, location shall be determined at preconstruction conference. These tracks shall be installed vertically to support the adjustable shelf.
- 3.6.13** Shall be equipped with a bright aluminum extruded rub rail by the bottom edge of the side compartments.
- Trim shall be approximately 2-1/8" high with 1-3/8" flanges turned outward for rigidity.
 - The rub rails shall not be an integral part of the body construction, which allows replacement in the event of damage.
- 3.6.14** Shall be equipped with two (2) 5" diameter x 10' long clear corrugated PVC hard suction hose.
- 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.
- 3.6.15** Shall be equipped with two (2) 1-1/4" diameter anodized aluminum extrusion handrails with a ribbed design.
- The handrails shall be supported with chrome plated end stanchions. Rubber or plastic gaskets shall be used between end stanchions and any painted surfaces.
 - Shall be equipped with drain holes in the bottom of all vertically mounted handrails.
- 3.6.16** Shall be equipped with four (4) air bottle compartments for both driver and passenger sides.
- Shall be equipped with a round PVC plastic storage tube to shall accommodate various size air bottles.
- 3.6.17** Shall be equipped with a bright finished folding type step on the front of each fender compartment.
- 3.6.18** Body shall be painted with red color paint (ref: PPG lead free #70184 or equivalent).
- 3.7** Fire Pump and Associated Equipment
- 3.7.1** Shall comply with NFPA 1901 Chapter 16 and the following requirements.
- 3.7.2** Pump shall be a minimum of 1000 gallons per minute (gpm).
- 3.7.3** Shall be equipped with a 3" pre-plumbed deck gun discharge and hand wheel valve.
- 3.7.4** Shall be equipped with pump transmission.

- 3.7.5** Shall be equipped with pump shift engagement made by a two (2) position sliding collar, actuated pneumatically (by air pressure), with a three (3) position air control switch located in the cab. A manual back-up shift control shall also be located on the driver's side pump panel.
- Shall be equipped with two (2) indicator lights to the pump shift inside the cab. One (1) green light shall indicate the pump shift has been completed and be labeled "pump engaged". The second green light shall indicate when the pump has been engaged, and that the chassis transmission is in pump gear. This indicator light shall be labeled "ok to pump".
 - Shall be equipped with a green indicator light adjacent to the hand throttle on the pump panel and indicate either the pump is engaged and the road transmission is in pump gear, or the road transmission is in neutral and the pump is not engaged. This indicator light shall be labeled "Warning: Do not open throttle unless light is on".
- 3.7.6** Shall be equipped with a direct gear transmission lock-up for the fire pump operation, and be engaged automatically when the pump shift control in the cab is activated.
- 3.7.7** Shall be equipped with a supplementary heat exchanger cooling system to allow the use of water from the discharge side of the pump for cooling the engine water.
- Shall be cylindrical type and be a separate unit.
 - Shall be installed in the pump or engine compartment with the control located on the pump operator's control panel.
 - Shall be plumbed to the master drain valve.
 - Engine water lines shall be run inside plastic conduit.
- 3.7.8** Shall be equipped with a relief valve (ref: Elkhart) on the suction side of the pump preset at 125 psig.
- Shall have a working range of 75 psig to 250 psig.
 - Shall have a 2-1/2" national standard hose thread adapter below the framerail outlet with a "Do Not Cap" warning tag.
 - Control shall be located behind an access door at the right (passenger's) side pump panel.
- 3.7.9** Shall be equipped with a pressure relief system.
- Shall be connected directly to the engine mounted electronic control module (ECM) or may be an integral part of the engine ECM.
 - Shall be equipped with a pressure transducer mounted in the water discharge manifold on the pump.
 - Shall be operable only after the vehicle parking brake has been set, the transmission is the pumping mode, and the fire pump has been engaged.

- Shall have two (2) modes of operation: pressure mode or rpm mode.
 - Shall automatically maintain the discharge pressure set by the operator regardless of flow when in the pressure mode.
 - Shall automatically maintain a set engine speed, regardless of engine load (within engine operation capabilities) when in the rpm mode.
 - Shall be equipped with a pump cavitation protection feature when return the engine to idle.
- 3.7.10** Shall be equipped with a 5" pump manifold inlet on each side of the vehicle.
- Shall be equipped with an intake strainer.
- 3.7.11** Shall be equipped with in-line ball valves.
- 3.7.12** Shall be equipped with a 2-1/2" auxiliary suction threaded with 2-1/2" national standard hose thread at the pump panel.
- Shall be equipped with a strainer, chrome swivel and plug.
 - The valve shall be recessed behind the pump panel.
- 3.7.13** Shall be equipped with a control for the side auxiliary inlet(s) located at the inlet valve.
- 3.7.14** Shall be equipped with a 3/4" bleeder valve for each side gated inlet 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.
 - Shall be routed below the chassis frame rails.
- 3.7.15** Shall be equipped with a booster tank connected to the intake side of the pump with heavy-duty piping and a quarter turn 3" full flow line valve with the control remotely located at the operator's panel.
- Tank to pump line shall be run straight (no elbows) from the pump into the front face of the water tank and angle down into the tank sump. A rubber coupling shall be included in this line to prevent damage from vibration or chassis flexing.
 - Shall be equipped with a check valve in the tank to pump supply line.
- 3.7.16** Shall be equipped a 2" combination tank refill and pump bypass using a quarter-turn full flow ball valve, controlled from the pump operator's panel.
- 3.7.17** Shall be equipped with two (2) discharge outlets and a 2-1/2" valve on the left side of the apparatus, terminating with a male 2-1/2" national standard hose thread adapter.
- 3.7.18** Shall be equipped with one (1) discharge outlet and a 2-1/2" valve on the right side of the apparatus, terminating with a 2-1/2" male National Standard hose thread adapter.

- 3.7.19** Shall be equipped with a 1-1/2" gated discharge outlet plumbed to the lower portion of the tray located in the center front bumper extension.
- Shall have a 90° swivel and terminate with 1-1/2" NHT.
 - Plumbing shall consist of 2" piping and a 2" full flow ball valve controlled at the pump operator's panel.
 - Shall be equipped with an automatic drain at all low points in the plumbing.
- 3.7.20** Shall be equipped with one (1) discharge outlet piped to the rear of the hose bed.
- Shall be equipped with a 2-1/2" piping and a 2-1/2" full flow ball valve with the control from the pump operator's panel. The one (1) discharge outlet shall terminate with a 2-1/2" male national standard hose thread male adapter.
- 3.7.21** Shall be equipped with chrome plated, rocker lug caps with chains for all side discharge outlets.
- Shall automatically relieve stored pressure in the line when disconnected.
- 3.7.22** Shall be equipped with a 3/4" bleeder valve for each outlet 1-1/2" or larger.
- 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.
 - Shall be located at the bottom of the pump panel and identified where the discharge plumbed.
 - The water discharged by the bleeders shall be routed below the chassis frame rails.
- 3.7.23** Shall be equipped with discharge outlets for left and right sides and rear.
- Shall incorporate a quarter-turn ball valve with the control located at the pump operator's panel.
- 3.7.24** Shall be equipped with two crosslay hose beds with 1-1/2" national standard hose thread outlets.
- Each bed shall be able to carry minimum of 200 feet of 1-3/4" double jacketed hose, plumbed with 2" ID pipe, and gated with a 2" quarter turn ball valve.
 - Outlets shall be 90° swivel.
 - The controls shall be at the pump operator's panel.
 - The center crosslay dividers shall be fabricated with minimum 1/4" aluminum and be able to adjust from side to side. The divider shall be unpainted on both sides with a dual application (DA) finish. The remainder of the crosslay bed shall be painted job color.
 - Shall be equipped with stainless steel vertical scuffplates at the front and rear ends of the bed on each side of vehicle.

- Shall be equipped with removable perforated brushed aluminum crosslay bed flooring.

3.7.25 Shall be equipped with an elastic netting crosslay/speedlay hose restraint across the top and on the ends.

3.8 Water Tank

3.8.1 Shall comply with NFPA 1901 Chapter 19 and the following requirements.

3.8.2 Shall be a minimum of 3000 U.S. gallons.

3.8.3 Shall be independent of the body and compartments.

3.8.4 Shall be marked with the manufacturer's name, date of manufacture, and serial number.

3.8.5 Shall be constructed with a minimum thickness of 1/2" polypropylene sheet.

3.8.6 The sides of the tank shall be covered with smooth sheets of aluminum that are painted to match the truck body.

3.8.7 The tank, side sheets and hose bed shall be removable as a unit and shall be a separate component from the truck chassis.

3.8.8 Shall be equipped with an access ladder constructed of aluminum tubing for access to the hosebed and/or tank dome.

- Shall have a flexible mount attached to the tailboard.
- Shall be located on the passenger side of the truck at the rear.

3.8.9 Shall be equipped with a 2-1/2" gated external tank fill at driver's side, rear of the water tank.

- Fill piping 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.
- Shall be equipped with a 2-1/2" full flow ball valve with 2-1/2" piping and a 2-1/2" chrome swivel at the inlet.
- Shall be equipped with a 2-1/2" chrome plated 30° elbow and plug with pressure relieving thread for the tank fill.

3.8.10 Shall be equipped with a 10" quick dump valve at the rear of the tank.

- Water shall be released manually by a lever control located on top of the valve.
- Shall be equipped with a telescopic extension chute and 90° elbow chute.

3.8.11 Shall be equipped with a minimum of 78" inside aluminum hose bed.

- Hose bed flooring shall be removable aluminum grating with the top surface corrugated. The grating slats shall be a minimum of 1/2" x 4-1/2" with spacing between slats for hose ventilation.
- Shall be equipped with an adjustable, sliding in tracks, minimum 1/4" thick aluminum plate at the front and rear of the hose bed.

3.8.12 Shall be equipped with black nylon velcro straps at the top of the hosebed.

- 3.8.13** Shall be equipped with a quick released, black nylon web strap netting at the top and rear of the hosebed.
- 3.8.14** Shall be equipped with 1/8" bright aluminum treadplate running boards.
- Running boards shall be 12-3/4" deep and spaced 1/2" away from the pump panel.
 - Shall be equipped with a splash guard above the running board treadplate.
- 3.8.15** Shall be equipped with 1/8" thick x 16" deep bright aluminum treadplate tailboard.
- The exterior side shall be flanged down and in. The flanges shall not be notched.
- 3.8.16** Shall be equipped with two (2) rear painted "tow" eyes at the rear of the truck mounted directly to the chassis frame rails.
- 3.9 Foam Proportioning System**
- 3.9.1** Shall comply with NFPA 1901 Chapter 21 and the following requirements.
- 3.9.2** Shall be an electronic direct injection foam system.
- 3.9.3** shall be a single agent system capable of handling Class "A" foam concentrates, as well as most Class "B" foam concentrates.
- 3.9.4** The foam system shall be plumbed to two crosslays (on top hoses).
- 3.9.5** Shall be equipped with a paddle wheel to monitor all foam discharges and foam tank gauge on pump panel.
- 3.9.6** Shall be equipped with push button control with a ratio from 0.1% to 3.0% in 0.1% increments.
- 3.9.7** System performance shall be 85 gpm at 3.0% and 500 gpm at 0.5%.
- 3.9.8** Shall be equipped with a minimum 2.5 gpm @ 150 psi, electric foam concentrate pump.
- Shall be equipped with a foam system manufacturer approved check valve in the plumbing to prevent foam from contaminating the water pump.
- 3.9.9** Shall be equipped with foam tank that is an integral portion of the polypropylene water.
- Shall be minimum of 50 gallons for use of Class "B" foam.
 - Shall be equipped with a screen in the fill dome and a breather in the lid.



STATE OF CALIFORNIA
QUESTIONNAIRE
TRUCK, MOBILE WATER SUPPLY FIRE APPARATUS

66942QN

NOTES:

The sections referred from this questionnaire are corresponded to specification 4210-08BS-001.doc.

The bidder shall complete the following in full and submit it with the bid.

The completed information shall be able to verify with accompanying documents (i.e. manufacturer literature, engineering drawings etc.).

Name of bidder: Central States Fire Apparatus Date: May 12, 2008

Year and Make: 2008 Central Model: Tanker

Section 3.2

Does the mobile water supply fire apparatus comply with NFPA 1901 Chapter 7? Yes No

Section 3.3

Does the chassis comply with NFPA 1901 Chapter 12? Yes No
What is the gross vehicle weight rating? 62,000 Pound

What is the type of the engine? Diesel Gas
What is the net brake horsepower of the engine? 330 hp

Is the unit equipped with an electronically activated exhaust brake with the control located on the instrument panel within easy reach of the driver? Yes No

Is the unit equipped with a diesel particulate filter and a diesel oxidation catalyst to meet current EPA/ARB emission standards? Yes No
What is the capacity of the full tank? 50 Gallon

Is the unit equipped with a 5-speed forward, electronic torque converting automatic transmission? Specify the make and model. Yes No
Allison EVS 3000

Is the unit equipped with a dual hydraulically driven steering system? Yes No

Is the unit equipped with chromed lugnuts or covers for all wheels? Yes No
Chromed lugnuts ; covers

Is the unit equipped with an air-conditioning unit for both cooling and heating? Yes No

Section 3.4

Does the low voltage electrical systems and warning devices comply with NFPA 1901 Chapter 13? Yes No

Is the unit equipped with a 12-volt alternator electrical system? Yes No
Leece Neville 270 AMP

Is the unit equipped with a master battery switch inside the cab within reach of the driver to activate the battery system? Yes No

Is the unit equipped with battery charging receptacle on the left side pump panel? Yes No

Is the unit equipped with "Red" warning lights? Yes No

Is the unit equipped with four (4) clear LED step lights - one (1) light at each cab door, one (1) light per doorstep? Yes No

Is the unit equipped with two-pair body side scene lights (one for driver side and one for passenger side) and controlled in cab? Yes No

Is the unit equipped with "LED" lighting package for emergency warning lights? Yes No

Section 3.5

Do the driving and crew areas (cab) comply with NFPA 1901 Chapter 14? Yes No

What is the seating capacity? 2 Person

Is the unit equipped with an air-suspension driver seat and a non-suspension officer seat? Bostrom High Back Suspension Drivers Yes No

Is the unit equipped but not limited to the following:

Tinted glass in all windows. Yes No

Black rubber floormats. Yes No

Dual sun visors. Yes No

Daytime running lights. Yes No

Gray vinyl upholstery. Yes No

Please list additional items below!

Intake ember protection, chassis multiplexing,

Goodyear tires, cruise control

Is the unit equipped with breakaway type brackets, "West Coast" style approximately 14-1/2" x 7-1/2" mirrors providing 110 in² viewing area? Yes No

Are mirrors "remote-controlled" from driver side? Yes No

Is the unit equipped with a 10" high, stainless steel bumper and attached to the front of the frame? Yes No

Is the unit equipped a 9" channel mounted directly behind the bumper for additional strength? Yes No

How long does the bumper extend from front face of cab? 15 Inch

Is the unit equipped with an aluminum hose tray located in the center of the bumper extension? Yes No

What is the tray minimum capacity for of 1-1/2" double jacket cotton-polyester hose?	100	Feet
Is the unit equipped with a pair of 1-7/8 " wide black nylon velcro straps for securing the hose in the tray?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the unit equipped with a bright aluminum gravel pan made out of treadplate and located between the bumper and cab face?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the unit properly supported from the underside to prevent flexing and vibration?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
In addition to the Instrumentation and controls specified on NFPA 1901 section 14.3.4, the following instruments/controls shall be provided:		
Engine hourmeter.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Air brake pressure gauge.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Air restriction indicator.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Circuit breakers for overload protection of electric circuits.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Keyless type ignition switch.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Windshield wiper control with intermittent feature.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Section 3.6		
Do body, compartments, and equipment mounting comply with NFPA 1901 Chapter 15?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the unit equipped with body and compartments made out of minimum 1/8" aluminum (ref: 5052-H32 aluminum)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the unit equipped with side compartments, which is an integral assembly with the rear fenders?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the unit equipped with circular fender liners for prevention of rust pockets and ease of maintenance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the unit equipped with compartment flooring that is sweep out design with the floor higher than the compartment door lip?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the unit equipped with the compartment door opening framed by flanging the edges in 1-3/4" and bending out again 3/4" to form an angle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the unit equipped with drip protection above the doors?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the unit equipped with front facing compartment walls covered with bright aluminum treadplate?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the unit equipped with underbody support system capable of supporting minimum of 500 pounds?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

- Is the unit equipped with compartments for both driver and passenger sides ahead of the rear wheels and behind rear wheels per section 3.6.10? Yes No
- Is the unit equipped with lap style with double panel construction doors, using a "C" section reinforcement installed between the outer and interior panels per section 3.6.11? The doors will be flush with body. Yes No
- Is the unit equipped with four (4) shelves, with a minimum capacity of 215 pounds per section 3.6.12? Yes No
- Is the unit equipped with a bright aluminum extruded rub rail by the bottom edge of the side compartments per section 3.6.13? Yes No
- Is the unit equipped with two (2) 5" diameter x 10' long clear corrugated PVC hard suction hose per section 3.6.14? Yes No
- Is the unit equipped with two (2) 1-1/4" diameter anodized aluminum extrusion, with a ribbed design handrails per section 3.6.15? Yes No
- Is the unit equipped with four (4) air bottle compartments for both driver and passenger sides per section 3.6.16? Yes No
- Is the unit equipped with a bright finished folding type step on the front of each fender compartment? Yes No
- Is the body painted with red color paint (ref: PPG lead free #70184 or equivalent)? Yes No
- Section 3.7**
- Do the fire pump and associated equipment comply with NFPA 1901 Chapter 16? Yes No
- What is the flow capacity of the pump? 1,000 gpm
- Is the unit equipped with a 3" pre-plumbed deck gun discharge and hand wheel valve? Yes No
- Is the unit equipped with pump transmission? Yes No
- Is the unit equipped with pump shift engagement/control per section 3.7.5? Yes No
- Is the unit equipped with a direct gear transmission lock-up for the fire pump operation, and engaged automatically when the pump shift control in the cab is activated? Yes No
- Is the unit equipped with a supplementary heat exchanger cooling system to allow the use of water from the discharge side of the pump for cooling the engine water per section 3.7.7? Yes No
- Is the unit equipped with a relief valve (ref: Elkhart) on the suction side of the pump preset at 125 psig per section 3.7.8? Yes No

- Is the unit equipped with a pressure relief system per section 3.7.9? Yes No
- Is the unit equipped with a 5" pump manifold inlet on each side of the vehicle per section 3.7.10? Yes No
- Is the unit equipped with in-line ball valves? Akron Yes No
- Is the unit equipped with a 2-1/2" auxiliary suction threaded with 2-1/2" national standard hose thread at the pump panel per section 3.7.12? Yes No
- Is the unit equipped with a control for the side auxiliary inlet(s) located at the inlet valve? Yes No
- Is the unit equipped with a 3/4" bleeder valve for each side gated inlet located behind the panel with a swing style handle control extended to the outside of the panel per section 3.7.14? Yes No
- Is the unit equipped with a booster tank connected to the intake side of the pump with heavy-duty piping and a quarter turn 3" full flow line valve with the control remotely located at the operator's panel per section 3.7.15? Yes No
- Is the unit equipped a 2" combination tank refill and pump bypass using a quarter-turn full flow ball valve, controlled from the pump operator's panel? Yes No
- Is the unit equipped with two (2) discharge outlets and a 2-1/2" valve on the left side of the apparatus, terminating with a male 2-1/2" national standard hose thread adapter? Yes No
- Is the unit equipped with one (1) discharge outlet and a 2-1/2" valve on the right side of the apparatus, terminating with a 2-1/2" male National Standard hose thread adapter? Yes No
- Is the unit equipped with a 1-1/2" gated discharge outlet plumbed to the lower portion of the tray located in the center front bumper extension per section 3.7.19? Yes No
- Is the unit equipped with one (1) discharge outlet piped to the rear of the hose bed per section 3.7.20? Yes No
- Is the unit equipped with chrome plated, rocker lug caps with chains for all side discharge outlets per section 3.7.21? Yes No
- Is the unit equipped with a 3/4" bleeder valve for each outlet 1-1/2" or larger per section 3.7.22? Yes No
- Is the unit equipped with discharge outlets for left and right sides and rear per section 3.7.23? Yes No

Is the unit equipped with two crosslay hose beds with 1-1/2" national standard hose thread outlets per section 3.7.24?

Yes No

Is the unit equipped with an elastic netting crosslay/speedlay hose restraint across the top and on the ends?

Yes No

Section 3.8

Does the water tank comply with NFPA 1901 Chapter 19?

Yes No

What is the capacity of the water tank?

3,000 gallons

Is the water tank independent of the body and compartments?

Yes No

Is the water tank marked with the manufacturer's name, date of manufacture, and serial number? UPF Lifetime Warranty

Yes No

What is the thickness the water tank material?

1/2 or more Inch

What is the material of the water tank? Specify!

Polypropylene

Are the sides of the tank covered with smooth sheets of aluminum that are painted to match the truck body?

Yes No

Is the tank, side sheets and hose bed removable as a unit and a separate component from the truck chassis?

Yes No

Is the tank equipped with an access ladder constructed of aluminum tubing for access to the hosebed and/or tank dome per section 3.8.8?

Yes No

Is the tank equipped with a 2-1/2" gated external tank fill at driver's side, rear of the water tank per section 3.8.9? Can be on drivers side or passenger

Yes No

Is the tank equipped with a 10" quick dump valve at the rear of the tank per section 3.8.10? With swivel that allows for L or R unloads.

Yes No

Is the tank equipped with a minimum of 78" inside aluminum hose bed per section 3.8.11? Can be 74"wide or 95"wide no additional cost.

Yes No

Is the tank equipped with black nylon velcro straps at the top of the hosebed?

Yes No

Is tank equipped with a quick released, black nylon web strap netting at the top and rear of the hosebed?

Yes No

Is the tank equipped with 1/8" bright aluminum treadplate running boards per section 3.8.14?

Yes No

Is the unit equipped with 1/8" thick x 16" deep bright aluminum treadplate tailboard per section 3.8.15?

Yes No

Is the unit equipped with two (2) rear painted "tow" eyes at the rear of the truck mounted directly to the chassis frame rails?

Yes No

Section 3.9

Does the foam proportioning system comply with NFPA 1901 Chapter 21? FoamPRO 2001 Class A/B system

Yes No

Is the system an electronic direct injection foam system?

Yes No

Is the system a single agent system capable of handling Class "A" foam concentrates, as well as most Class "B" foam concentrates?

Yes No

Is the system plumbed to two crosslays (on top hoses)?

Yes No

Is the foam system equipped with a paddle wheel to monitor all foam discharges and foam tank gauge on pump panel?

Yes No

Is the system equipped with push button control with a ratio from 0.1% to 3.0% in 0.1% increments?

Yes No

Does the system performance comply with section 3.9.7?

Yes No

Is the system equipped with a minimum 2.5 gpm @ 150 psi, electric foam concentrate pump per section 3.9.8?

Yes No

Is the system equipped with foam tank that is an integral portion of the polypropylene water per section 3.9.9?

Yes No



STATE OF CALIFORNIA
ADMINISTRATIVE REQUIREMENT
TRUCK, MOBILE WATER SUPPLY FIRE APPARATUS

66942AR

1. General

- The truck shall be fully functional when delivered to the location specified per this IFB.
- The truck shall be inspected by a Department of General Services Inspector of Automotive Equipment at the delivery location during the time of delivery. It will be the responsibility of the bidder to ask for inspection when the truck is ready for delivery. Please contact the agency prior to delivery. The burden of proof of compliance with the specification will be the responsibility of the bidder.

2. Vendor Qualification

- The bidder shall be able to demonstrate a history and expertise in the sale/manufacturing of similar fire apparatus and has been in business continuously for a minimum of 60 consecutive months prior to this bid. Bidders shall provide a minimum of three (3) references that are currently operating the proposed equipment including contact numbers and names with the bid or 5 days of request by the State.
- All bidders/vendors shall be either the factory or factory authorized distributors, and offer factory or factory authorized service for the products they are offering. Factory Authorization Letter shall be submitted with the bid or within 5 days of request by the State.

3. Project Management

- Upon award, the vendor/contractor shall conduct a pre-production meeting with representative(s) from the receiving agency. Items shall be discussed are but not be limited to: 1) production timeline, 2) milestones at various stages of construction, 3) detail of the truck to be supplied per NFPA 1901.
- Stat representative(s) may visit the place of manufacturer at any time during production of the truck as deem necessary.

4. Documentations

- For California registered business: Shall provide the original dealer's "Report of Sale" at the time of delivery of truck covered by these specifications.
- For Non California registered business: In lieu of a dealer's "Report of Sale, the supplier shall provide a "Manufacturer's Statement of Origin" and original "Bill of Sale" on the vendor's letterhead.
- All documentation supplied for registration shall contain the following physical address:
CA State Military Department
Department of Logistics
4407 DOOLITTLE AVE., BLDG 9
Los Alamitos, CA 90720
- Shall provide an original weight certificate from a California Weigh Master and a copy of warranty at the time of delivery of the unit.
- All required documentation shall be sent to above address by the time of delivery.

5. MANUALS/Safety Video

- Shall provide at least one (1) set of complete operation and maintenance manuals covering the completed apparatus as delivered at time of delivery.
- Shall provide an apparatus safety video, in DVD format at the time of delivery. This video shall address key safety considerations for personnel to follow when they are driving, operating, and maintaining the apparatus. Safety procedures shall include but not be limited the following: vehicle pre-trip inspection, chassis operation, pump operation, and maintenance.
- All manuals and instructions shall be in the English language.

6. Performance Tests

- Shall be conducted per NFPA 1901 section 4.13 and 4.14.

7. Failure To Meet Test

- In the event the apparatus fails to meet the performance test above on the first trial, second trials may be made at the option of the bidder 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 bidder of such changes, shall also be cause for rejection of the apparatus. Permission to keep or store the apparatus in any building owned or occupied by the purchaser or its use by the purchaser during the above-specified period with the permission of the bidder shall not constitute acceptance.

8. Commercial General Liability Insurance

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

Products/Completed Operations Aggregate	\$2,000,000
Personal and Advertising Injury	\$1,000,000
Each Occurrence	\$1,000,000

- 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 subject to the terms and conditions of the policy. The policy shall include owner as an additional insured as their interest may appear.

9. Commercial Automobile Insurance

- The successful bidder shall, during the performance of the contract keep in force at least the following minimum limits of commercial automobile insurance:

Each Accident:	\$1,000,000
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- Coverage shall be written on a Commercial Automobile form.

10. Umbrella/Excess Liability Insurance

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

Aggregate: \$25,000,000

Each Occurrence: \$25,000,000

- The umbrella policy shall be written on an occurrence basis and at a minimum provide excess to the Bidder's General Liability, Automobile Liability and Employer's Liability policies. Owner shall be included as an additional insured on the General Liability policy as their interest may appear.
- 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.
- Bidder agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with its bid or 5 days of request by the State. The certificate shall be made out to the purchaser. The Certificate of Insurance shall endeavor to provide that owner be given 30 days advance notice of cancellation or nonrenewal change in coverage.

11. Training

- Shall be provided by the vendor's representative on how to operate and maintain this truck for a minimum of two (2) State representatives.

12. Warranty and Service

- A copy of warranty (for commercial and government use) shall be provided with bid or within 5 days of request by the State and shall be included but not be limited to the following:
- Body shall be fully warranted to be free from defects in materials (corrosion perforation) and workmanship for a minimum of 10 years or 100,000 miles from date of acceptance, whichever occurs first.
- The engine shall be fully warranted to be free from defects in materials and workmanship for a minimum of 5 years from date of acceptance.
- The transmission shall be fully warranted to be free from defects in materials and workmanship for a minimum of 5 years from date of acceptance.
- The tank shall be fully warranted to be free from defects in materials and workmanship for a lifetime from date of acceptance.
- Pump shall be fully warranted to be free from defects in materials and workmanship for a minimum of 5 years from date of acceptance.
- The stainless steel plumbing components and ancillary brass fittings used in the construction of the water/foam plumbing system shall be fully warranted to be free from defects in materials and workmanship for a minimum of 10 years or 100,000 miles from date of acceptance, whichever occurs first.

- All in-line ball valves shall be fully warranted to be free from defects in materials and workmanship for a minimum of 10 years from date of acceptance.
- Vacuum and pressure gauges shall be fully warranted to be free from defects in materials (leakage, pointer defect, and defective bourdon tube) and workmanship for a minimum of 10 years from date of acceptance.
- The body exterior paint finish shall be warranted against blistering, peeling, corrosion, lack of adhesion or any other manufacturing or material defect for a minimum of 10 years from date of acceptance.
- Graphics shall be fully warranted to be free from defects in materials and workmanship for a minimum of 3 years from date of acceptance.
- Services and/or parts shall be provided within 72 hours of notification from the State.