

A-A-58003
2 APRIL 1992

COMMERCIAL ITEM DESCRIPTION

TRUCK, FIRE FIGHTING
(STRUCTURAL, 4 x 2 OR 4 x 4)

General Services Administration has authorized
the use of this commercial item description (CID).

1. Abstract:

This Commercial Item Description describes a commercial straight frame, diesel engine driven, structural fire fighting truck with either four wheel, two wheel drive or four wheel, four wheel drive. The trucks shall be identical except for the drive line features and shall not exceed thirty (30) feet in length. The quantities and types shall be specified by the purchaser. Pumping capacity shall be 1250 GPM.

2. Salient Characteristics:

2.1 The truck shall be free from faulty construction or any defect which affects appearance, serviceability or durability. All components and accessories shall be represented in the manufacturer's sales data as standard or optional. The truck shall be representative of the quality and workmanship found in fire trucks offered for new commercial sale.

2.2 The truck shall meet all the requirements and testing of National Fire Protection Association, NFPA 1901. The truck pumping performance shall be certified by a nationally recognized testing laboratory. The following is the purchaser provided data required by NFPA 1901:

2.2.1 The 4 x 2 fire truck shall operate on paved or graded gravel roads. Automatic locking differentials shall be provided. Tires shall be tubeless, steel radial design with non-directional, extra traction tread design mounted on steel disk wheels. A spare wheel and tire assembly shall be furnished, but a spare carrier is not required. The truck shall have a wall to wall turning diameter of seventy (70) feet maximum in either direction.

2.2.2 The 4 x 4 fire truck shall operate on paved or graded gravel roads and on cross country terrain. Automatic locking differentials shall be provided in the rear axle and the transfer case. Single wheels shall be provided on both the front and rear axles of this truck. Tires shall be tubeless, steel radial design with non-directional, off-road traction tread design, capable of sustained highway speeds, mounted on steel disk wheels. A spare wheel and tire assembly shall be furnished, but a spare carrier is not required. The truck shall have a wall to wall turning diameter of seventy (70) feet maximum in either direction.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: WR-ALC/LZMD Robins AFB, GA 31098-5609

AMSC N/A

FSC 4210

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- 2.2.3 When specified, the engine and pumping system operational design elevation shall be 8000 feet above sea level.
- 2.2.4 The 4 x 2 truck shall be capable of a maximum grade operation of eight percent at a minimum of 20 MPH.
- 2.2.5 The 4 X 4 truck shall be capable of a maximum grade operation of thirty percent at a minimum of 5 MPH.
- 2.2.6 The vehicle shall be capable of operating in temperatures ranging from 0 to +125 deg F. When specified, a winterization system shall be provided to extend the operational range of the truck, tank, pump and piping to -40 deg F.
- 2.2.7 Provide a manual emergency engine shut-down.
- 2.2.8 Provide electric fuel priming pump.
- 2.2.9 Provide a minimum 10 amp battery charger with a 120 volt AC polarized connection adjacent to the driver's door.
- 2.2.10 Provide a minimum 180 ampere alternator. A driver controlled high idle switch shall be provided which shall raise engine RPMs to meet the minimum 180 alternator amperage requirement.
- 2.2.11 Provide either all red or all blue strobe type warning lights, as specified at time of purchase, on the front face of the cab and on the rear of the truck body. Intersection warning lights shall be provided on either end of the front bumper. An alternating headlight system shall be provided. Provide one six (6) element strobe type light bar with both forward and side facing strobe heads on the roof of the truck cab.
- 2.2.12 Provide a minimum 100 watt electronic siren with cab mounted amplifier unit capable of: volume control and selection of 'Radio', 'P.A.', 'Manual', 'Yelp', 'Wail' and 'Hi-Lo' siren modes and shall have a two-way radio audio tap. In addition to the amplifier mounted activation control, a foot operated switch shall be provided for the crew chief.
- 2.2.13 Provide two, interior adjustable, cab roof mounted spotlights.
- 2.2.14 Provide two height and direction adjustable 500 watt lights on either side of the truck pump panel. The minimum extension of the lights shall be not less than four feet above the pump panel. The lights shall be controlled at the pump panel and easily accessible to the pump panel operator.
- 2.2.15 Provide a checked shoreline connection to the brake system wet tank at the rear of the truck body or adjacent to the driver's door.
- 2.2.16 When specified, provide a driver controlled magnetic drive line retarder.
- 2.2.17 When specified, provide a driver controlled engine compression retarder.

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2.2.18 Provide rear wheel fender liners with clearance for tire chains. The unused space between the compartments and the fender liners shall be used for storage of one hour self-contained breathing apparatus (SCBA) bottles.

2.2.19 Provide a minimum fifty (50) gallon fuel tank capacity.

2.2.20 Provide combination flat and convex, west-coast design, heated rear view mirror on each side of the cab.

2.2.21 Provide a fully enclosed four man, four door all aluminum or all stainless steel cab with one air suspension driver's seat and three non-suspension SCBA seats with one hour capacity air bottle support brackets. When specified, an air conditioning system shall be provided.

2.2.22 Provide an all aluminum or all stainless steel truck body with high side storage on both sides of the truck with clear anodized aluminum roll-up compartment doors. Roll-up door latches shall not be of push button design. Provide compartment space for and provide the full complement of equipment required in Chapter 7 and para A-7-2 of NFPA 1901, with the exception of SCBA and spare cylinders, plaster hook, 3000 watt generator, portable pump, hose clamp and tool box with tools. Pike pole, axe, hammer and shovel handles shall be fiberglass. One 2 1/2 gallon water extinguisher and two 80 ABC dry chemical fire extinguishers shall be provided. The ladders shall be mounted in such a manner as not to interfere with the deployment of the crosslay hose on the right side. Compartment floors shall be constructed so as to prevent accumulation of water and allow ventilation to aid in drying of equipment stored within. Each compartment shall have at least one shelf. Compartment shelving shall be removable and adjustable. All steps, standing and walking surfaces, shall be fabricated of polished tread plate. Compartments shall meet all the requirements of Chapter 6 of NFPA 1901 and shall be provided on the left and right side and the rear of the vehicle. A portable ninety five (95) GPM in-line eductor for three percent (3%) aqueous film forming foam (AFFF) shall be provided. The in-line eductor shall have an adjustable dial to meter the percentage of foam used.

2.2.23 Provide a dedicated 15 amp circuit with breaker and a wire routed to a space provided between the driver and crew chief for a purchaser provided radio.

2.2.24 All cab and truck body cavities that may trap water shall be designed to drain and shall be corrosion protected with a commercially available coating produced for that purpose.

2.2.25 The exterior surfaces of the truck shall be primed and top-coated with a commercial polyurethane Lime Yellow (high gloss) or Olive Drab (semi-gloss) paint as specified at time of purchase. The Lime Yellow truck shall be provided with a four (4) inch red reflective stripe. Compartment interiors for Lime Yellow trucks shall be painted in accordance with the manufacturer's standard commercial practice and all standard chrome or polished metal parts, hinges, tread plates and roll-up compartment doors shall not be painted. The Olive Drab truck shall be provided with a four (4) inch black reflective stripe. Compartment interiors and all standard chrome or polished metal parts, hinges, tread plates and roll-up compartment doors shall be painted Olive Drab.

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- 2.2.26 Provide a mid-mounted 1250 GPM, single stage, bronze fitted pump. The pump shall be power take off (PTO) driven. The pump priming system shall be of either an automatic operating design or a manually activated electric vane type.
- 2.2.27 The pump operator's control panel shall be top center mounted and elevated to provide 360 degree visibility around the truck. Man saver bars shall be provided at either end of the pump walkway. All the color coding recommendations as stated in NFPA 1901 para A-4-9.3 shall be followed. Pressure gauges shall be used.
- 2.2.28 Provide a pump pressure relief valve operated from the pump operator's control panel.
- 2.2.29 All threads shall be National Standard Fire Hose Thread (NSFHT). All discharges except the 1 1/2 inch preconnected discharge outlets shall be provided with a 45 degree turned down fittings.
- 2.2.30 Provide three each 6 inch inlets with quarter turn butterfly valves, one at each side of the truck and one at the right rear facing side of the truck.
- 2.2.31 Provide two each 2 1/2 inch discharges on the left side, one each 2 1/2 inch discharge on the right side and one each 2 1/2 inch discharge on the rear of the vehicle.
- 2.2.32 Provide one standard master discharge on the right side of the vehicle with no less than 3 inch full flow piping and valve with a 2 1/2-inch adaptor.
- 2.2.33 Provide three each 1 1/2 inch preconnected swivel discharge outlets to accommodate the crosslay hose defined in para 6-2.1(b) of NFPA 1901. The cross-lay bed shall be located next to but not under the pump panel.
- 2.2.34 Provide one each portable 3 inch 1250 GPM monitor (deluge gun) with hand wheel controls which shall be mounted on a 3 inch riser and valve and shall be supplied directly from the pump. The monitor riser and valve shall be mounted in an area at the top of the pump operator's control panel. A matched folding portable base for the monitor shall be provided and stored in a compartment. A fog tip and stacking type tips with stream straighteners, 2 inch, 1 3/4 inch, 1 1/2 inch and 1 1/4 inch shall be furnished.
- 2.2.35 Provide a 500 gallon minimum water tank with a removable tank lid for transporting either salt or fresh water. The tank material shall be either stainless steel, fiberglass or polypropylene. Also, provide sufficient swash partitions which shall follow the guidance of Paragraph 5.2.4 of NFPA 1901. A five light tank level indicator shall be provided at the pump operator's panel.
- 2.2.36 Provide a clean-out sump with a 3 inch diameter drain pipe with NSFHT connection and plug at the rear of the water tank.
- 2.2.37 Provide two 10 foot long sections of 6 inch light weight hard suction hoses with 6 inch NSFHT long handle couplers on the female ends and 6 inch NSFHT long handle couplers on the male ends. The hard hoses shall be mounted side by side above the left side compartments.

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2.2.38. Provide a hose bed with three adjustable dividers. The hose bed shall be capable of holding 1000 feet of 5 inch jacketed fire hose and 1000 feet of 3 inch double jacketed fire hose.

2.2.39. Provide an electric start, diesel engine driven, 5 KW AC generator, permanently mounted in a ventilated compartment on the truck. The generator fuel supply shall be in common with the truck engine. The generator starter and ammeter shall be located on the pump operator's control panel. The generator shall provide both 120 and 240 volt, sixty cycle, single phase power. A weatherproof distribution panel shall be located within reach of the pump operator's control panel and shall have six 120 volt, 15 amp circuits, with Ground Fault Indicator (GFI) breakers, and two 240 volt, 30 amp circuits, with GFI breakers. A total of six 120 volt, twist lock receptacles, with weatherproof covers, shall be provided, two on each side of the truck and two at the rear. One each 240 volt, twist lock receptacle, lock receptacle, with weatherproof cover, shall be provided on each side of the truck. Receptacles shall be different for 120 and 240 volt connections. A prewired automatic rewind reel with roller guide and 200 feet of 120 volt, 15 amp rated, extension cord with twist lock connector, shall be one provided on each side of the truck, within a compartment. Each receptacle and reel shall be wired to the distribution panel and labeled with circuit numbers and shock warning.

2.2.40. A thirty five (35) foot ladder, one fourteen (14) foot roof ladder and one ten (10) foot folding ladder shall be provided. The ladders shall be mounted above the right side compartment in a powered rack in such a manner as not to interfere with opening of or access to the compartments. The powered rack shall lower the ladders to forty eight (48) inches above the ground. A flashing warning light shall be mounted on each end of the rack and shall be activated upon deployment. The ladders shall be secured to the rack with quick release type attachments. A warning light visible from the driver's position shall indicate if the ladders are not secured in the stored position.

2.2.41. Provide a prewired terminal strip at each seated position and at the pump operator's control panel from the purchaser provided radio location, capable of providing both intercom and radio communication. All other wiring shall be provided by the purchaser.

2.2.42 Provide a pressure protected air chuck, with quick disconnect, located on the driver's side of the truck for the operation of purchaser provided air tools. The air source shall be the brake reservoir system.

3. Regulatory Requirements:

3.1 The offerer/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent possible.

3.1.1. For the purpose of this requirement, recovered materials are those materials which have been collected from solid waste and reprocessed to become a source of raw materials, as distinguished from virgin raw materials. The components, pieces and parts incorporated in the truck(s) may be newly fabricated from recovered materials to the maximum extent practicable, provided the truck(s) produced meets all other requirements of this CID. Used, rebuilt or remanufactured components, pieces and parts shall not be incorporated.

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4. Contractor Certification:

The contractor shall certify and maintain substantial evidence that the product offered meets the salient characteristics of this commercial item description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. The government reserves the right to require proof of such conformance prior to the delivery and thereafter as may be otherwise provided for under the provisions of the contract.

5. Market Acceptability:

Commercial. The vehicle furnished must be, as of the date of the award, the latest model (with minor modifications, as that term is defined in DOD Federal Acquisition Regulation (FAR) Supplement 252.211-7012, Paragraph 85 of the solicitation) of an established product previously produced and sold in substantial commercial quantities (exceeding the criteria at FAR 15.804-3 (f) (2) (ii) (A) for at least two (2) years immediately preceding the issuance date of the solicitation. The vehicle furnished, or earlier models of it, absent minor modifications, shall have routinely been supported with spares/repair parts which were produced or sold in the normal course of business. At the time of delivery, the contractor shall furnish the Administrative Contracting Office with verification of compliance with these requirements. Offerors shall provide, as part of the proposals, the following information on the vehicle (or its earlier models, being offered as a commercial item:

(a) Total Sales to the U.S. Government or to contractors for U.S. Government used during the two (2) years immediately preceding the issuance date of the solicitation.

(b) Total sales of the item to the general public during the two (2) years immediately preceding the issuance of the solicitation.

(c) Length of time the item has been sold in the commercial market place.

(d) Points of contact and phone numbers of customers to which the item has been sold in the commercial market place.

(e) Other pertinent information necessary to determine that the item is an established commercial item.

6. Packaging, Packing and Marking:

Unless otherwise provided in the contract, the truck shall be prepared for delivery by common carrier and shall provide for protection against loss or damage while in transit. An identification plate, permanently marked, shall be securely mounted at the driver's compartment. The identification plate shall contain the following information:

NOMENCLATURE
 MANUFACTURER'S MODEL NUMBER
 MANUFACTURER'S SERIAL NUMBER
 MANUFACTURER'S NAME
 MANUFACTURER'S ADDRESS
 MANUFACTURER'S SERVICE PHONE NUMBER
 DATE OF MANUFACTURE
 CONTRACT NUMBER
 NATIONAL STOCK NUMBER
 REGISTRATION

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7. Contractor Requirements:

7.1 The contractor shall meet all the requirements of para 2-2 of NFPA 1901. Two sets of commercial manuals, including operation, maintenance and parts shall be provided with each truck delivered. The parts manuals shall list the contractor's part numbers, as well as, the component and equipment manufacturer's part numbers, as applicable. The contractor shall supply a video tape training course meeting the requirements of para A-2-2.4 and para 2-2.4 of NFPA 1901. The video course shall verbally and visually provide the users with all the information required for the maintenance and the operation of the vehicle and its components using the provided commercial manual as a baseline.

7.2 The first production truck shall be fully demonstrated for Air Force review, including: driveability, pump and all mounted equipment performance, at the contractor's facility, prior to delivery. The manuals shall also be made available, at the time of demonstration, for review.

8. Notes. The purchaser shall specify the following at time of purchase:

- (a) If a 4 x 2 or 4 x 4 truck is required.
- (b) If a winterization system is required.
- (c) Color of warning lights.
- (d) If air conditioning is required.
- (e) Color of the truck.
- (f) If an engine compression retarder is required.
- (g) If a magnetic drive line retarder is required.
- (h) If the engine and pumping system operational design elevation of 8000 feet above sea level is required.

CUSTODIAN:
AIR FORCE - 99

PREPARING ACTIVITY:
AIR FORCE - 84

PROJECT NUMBER 4210-0454

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER A-A-58003	2. DOCUMENT DATE (YYMMDD) 92 Apr 2
3. DOCUMENT TITLE TRUCK, FIRE FIGHTING (STRUCTURAL, 4 X 2 OR 4 X 4)		
4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)		
5. REASON FOR RECOMMENDATION		
6. SUBMITTER		
a. NAME (Last, First, Middle Initial)	b. ORGANIZATION	
c. ADDRESS (Include Zip Code)	d. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON (If applicable)	7. DATE SUBMITTED (YYMMDD)
8. PREPARING ACTIVITY		
a. NAME WR-ALC/LZMD	b. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON	
c. ADDRESS (Include Zip Code) Robins AFB GA 31098-5609	IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	