

REQUEST FOR PROPOSAL
SUPPORT/UTILITY APPARATUS



CITY OF PRESCOTT FIRE DEPARTMENT

INTENT OF SPECIFICATIONS

It is the intent of these specifications to cover general requirements for the furnishing and delivery to the Fire Department of a complete apparatus equipped as hereinafter specified. Details of construction and materials, where not otherwise specified, are left to the discretion of the contractor, who shall be solely responsible for the design and construction of all features. The apparatus shall conform to the applicable requirements of the current (at time of bid) National Fire Protection Association (NFPA) Standard 1901, which is hereby incorporated herein as if set forth at length.

QUALIFICATIONS OF THE BIDDERS FOR THIS PROPOSAL

Proposals shall only be considered from manufacturers with an established reputation in the field of fire apparatus construction. Each bidder shall provide satisfactory evidence of his ability to construct the apparatus specified and shall state the location of the factory where the apparatus is to be built.

SERVICE REQUIREMENTS:

Each proposal shall show that he/she is in a position to render prompt service and to furnish replacement parts for said apparatus. Proposers shall have service capability within the State of Arizona OR APPROVE THE City's Fleet Maintenance personnel to perform warranty work.

Proposers shall state the location of the nearest service facility.

Certified parts availability, service capability and total life cost will be given serious consideration.

BID SECURITY

Each bidder shall be required to post a bid security bond in the amount of 10% of the contract price. If the successful proposal defaults the City of Prescott will retain the bid security as liquidated damages.

DRAWINGS AND WEIGHT:

All proposals must submit a top view, front view, left side view, rear view, and right side body view scale drawing(s) of the apparatus proposed, and include bumper swing turning clearance, curb-to-curb turning clearance, approach and departure angles, and equipment that is proposed to be furnished and to which the apparatus furnished under contract must conform. The proposal must also include laden and unladen weight, gross vehicle weight ("G.V.W.") and net vehicle weight.

Any item depicted on the drawings not specified as "Option", shall be considered as standard equipment. Furthermore, any item required for the apparatus to meet qualifications (I.E. NFPA) shall be considered as standard equipment. No further cost shall be imposed.

LIABILITY

The successful bidder shall assume all liability for the use of his patented process, device or article forming a part of the apparatus. In addition, responsibility for the apparatus and equipment shall remain with the contractor until acceptance by the Purchaser.

CONTRACT AGREEMENT

These specifications, together with any other documents required herein, shall be included in the contract executed by the Purchaser and the successful bidder. Each bidder shall submit a copy of his proposed contract form. Said contract form shall be subject to approval or modification until acceptable by both parties.

TERMS OF PAYMENT

The apparatus shall be paid for in full upon acceptance by the Fire Department, which shall be upon delivery and completion of training unless lease options or other arrangements are made during the proposal acceptance process.

PRE-CONSTRUCTION CONFERENCE:

The successful proposer shall arrange a pre-construction conference with a representative(s) from their engineering group and the following employees from the City of Prescott: Two (2) employees from the Fire Department and one (1) employee from the Fleet Services Division. The purpose of this conference

is to insure that the details of the apparatus' construction and the placement of items are clearly understood by both parties. The pre-construction conference shall be held at the factory of the successful proposer. The proposer shall arrange and provide lodging and transportation for City staff to attend the conference.

After the pre-construction conference a finalized drawing and a list of specification clarifications shall be provided and become part of the purchase contract and proposal documents.

INSPECTION TRIP:

The successful proposer will arrange for two (2) inspection trips to the factory; one (1) shall be at the pre-paint stage of construction and one (1) shall be at the pre-delivery stage. The inspection trip will allow for three (3) employees of the City of Prescott; two (2) from the Fire Department and one (1) from the Fleet Services Division to inspect the apparatus. This cost (including airfare, lodging and transportation) will be included in this proposal.

DELIVERY AND TRAINING

The successful bidder shall, at his expense, deliver the apparatus to the Fire Department. A factory trained and authorized delivery instructor shall then remain with the apparatus for three (3) days to train Fire Department personnel in the operation and preventive maintenance of the apparatus.

Minimum of eight (8) hours of training at the City of Prescott Fleet Maintenance facility for fleet maintenance at bidder's expense.

BID PROPOSAL

Each bidder's proposal shall clearly state the total price, make and model, and terms of payment. All bids must remain firm for sixty (60) days and must be signed by a duly authorized representative of the company.

EXCEPTIONS

It is the intent of these specifications to obtain maximum efficiency of the apparatus and equipment delivered, with emphasis on crew safety, ease of operation, resistance to corrosion, and availability of service and parts. Only major components and features have been requested in support of this, and exceptions taken in these areas may not be acceptable. Each proposal shall list all exceptions or substitutions proposed, however minor, on a separate page entitled "EXCEPTION" and shall provide adequate supportive data to allow the Fire Department to determine acceptability. All other components will be described in each proposal.

WARRANTY

The successful bidder shall warrant the apparatus to be free from defects in material and workmanship for a period of one (1) year. Component parts, if found to be defective, shall be repaired or replaced without costs to the City of Prescott. This warranty shall be exclusive of the chassis, fire pump, and other trade accessories that are normally warranted by their respective manufacturers. Each bidder shall submit a copy of his proposed warranty in compliance with these requirements.

All defective parts and labor cost shall be at zero expense to the City of Prescott during warranty period.

Successful bidder must warrant the entire vehicle, including the cab, chassis, body, plumbing, and all systems. Split responsibility for the warranty will not be accepted.

Bidder shall provide all extended warranties that are standard with individual components. Warranties shall include, but not be limited to, the following:

- Engine
- Transmission
- Axles
- Cab and Body
- Paint

Copies of above warranties shall be included in the bidder's proposal for verification.

GENERAL CONSTRUCTION

The GAWR and GVWR of the chassis shall be adequate to carry the fully equipped apparatus including full water and other tanks, the specified hose load, unequipped personnel weight, ground ladders, and a miscellaneous equipment allowance in accordance with NFPA standards.

Special consideration shall be given to accessibility of various components that require periodic maintenance, ease of operations, and symmetrical proportions.

ACCEPTANCE OF PROPOSALS

The Fire Department reserves the right to reject any or all proposals and to accept the proposal, which in its opinion best meets the requirements, outlined herein. Quality, delivery time, size, maneuverability, maintenance, service, warranty, and cost will all be factors in the evaluation process.

MANUALS

Two (2) complete sets of parts and service manuals, or CDs specific to this vehicle. These manual shall be delivered directly to City of Prescott Fleet Services before payment of vehicle invoice shall be processed by the City of Prescott. Manuals to include:

- All of the chassis
- Body components
- Complete electrical diagram

PROPOSAL FOR FIRE APPARATUS

DATE: _____

TO: City of Prescott, City Clerk
201 S. Cortez St.
P.O. Box 2059
Prescott, AZ 86301

FROM: _____

The Above Manufacturer Agrees to Provide the Fire Dept:

For the Sum of: (inclusive of all taxes and delivery charges).

\$ _____

Quotation shall be Valid For: ____ Days

Delivery Shall Be F.O.B.: Fire Department Headquarters, Prescott, AZ

Delivery Time in calendar days, from the notice of date of award): _____

Payment Terms: _____

Location for Authorized Service: _____

Phone Number: (____) _____

Authorized Signature: _____

Title: _____

Company: _____

SECTION I - CHASSIS

CUSTOM FIRETRUCK CHASSIS

The Van chassis shall be designed and manufactured by a custom chassis manufacturer. Wheelbase of this vehicle shall be approximately 250 inches.

CHASSIS FRAME

The frame shall be designed to industry standards. The manufacturer shall provide a lifetime warranty to the original purchaser of the chassis.

FRONT BUMPER

Flush mounted chrome or polished stainless steel wrap around bumper.

SIREN SPEAKER

One (1) Whelen model SA314B 100-watt siren/speaker with polished contoured mount Whelen model SACSTCMP shall be mounted in the front bumper.

TOW HOOKS

Two (2) chromed tow hooks shall be provided and shall be attached directly to the front frame extension under the bumper.

TRAILER HITCHES

Reese front and Rear trailer hitches

REAR ANTI-DRAG WHEELS

Two (2) Paktron solid steel skid roller shall be mounted to the rear of the frame rails (one on each side). Size and placement to be determined at preconstruction conference.

FRONT AXLE

The front axle shall have a 10,000 capacity.
Front springs shall have a capacity at ground of 10,000 lbs.
All front spring pins shall have grease fittings for lubrication.
Double acting hydraulic shock absorbers are to be installed.

FRONT/REAR AXLE BRAKES

4-Wheel ABS, and the brakes shall be air actuated.

REAR AXLE

The rear axle shall be a single rear axle with a 20,000-lb.
The rear axle ratio shall be either 4.56, 4.78 or 5.13

Bidder shall provide a scan run print out to demonstrate vehicle's performance, fuel economy, grade ability, and top speed of 65 MPH in top gear.

VEHICLE TOP SPEED

The rear axle shall be geared for a top speed of approx. 65 mph at engine governed RPM.

REAR SUSPENSION

The rear suspension shall have a rating of 20,000-lb. capacity with heavy-duty shock absorbers installed on the rear axle.

WHEELS and TIRES

All wheels shall be 22.5" aluminum.
The tires shall be capable of supporting the specified axle weight.

AIR INLET / OUTLET:

An outside air system inlet/outlet connection shall be provided and mounted in the driver's cab step area. This connection shall be clearly labeled as to the function.

ENGINE COOLANT RADIATOR

The engine coolant radiator shall have sufficient capacity to perform under the engine manufacturer installation requirements. The chassis manufacturer shall demonstrate the ability to meet this requirement with a written documented submittal to the fire department for the apparatus.

The engine coolant system to be adequate to operate under full load in ambient air temperatures between 30 degrees and 120 degrees F without overheating.

DIESEL ENGINE

The chassis shall be powered by at least a 660 torque 245 hp diesel engine.

ENGINE SOFTWARE:

All engine computer soft-wear and access wires/plugs shall be provided for the maintenance of the engine.

TRANSMISSION

The transmission shall be an Allison 2500 automatic transmission with electronic controls, and Park Pawl.

FUEL TANK

The fuel tank shall have a capacity of 45 gallons (US) and be D.O.T. certified

AIR HORN:

An air horn shall be recessed in the front bumper. Air horn shall be actuated by a weatherproof foot switch on the driver's left side floor, and steering wheel horn button.

ELECTRICAL SYSTEM

Multiplex wiring system to include instrument cluster, gauges, equipment, lighting, and generator.

The apparatus shall be equipped with a functional and reliable management system for complete control of the electrical system devices. This management system shall be capable of performing load management functions, system monitoring and reporting, and be fully programmable for control of the electrical system.

The system shall provide diagnostic capabilities for troubleshooting the electrical system of the apparatus.

Apparatus shall be equipped with a 270 Amp alternator.

CHASSIS COLOR CODED WIRING

All wiring shall be in accordance with NFPA-1901, and color and function coded.

BATTERY BANK

A single battery system will be capable of 1900 CCA at 32 degrees F.

A battery disconnect switch, rated above the alternator output, shall be used to activate the system and provide power to the power panel.

AUTO-EJECT RECEPTACLE:

For the battery charger, one (1) Kussmal Auto Eject receptacle shall be provided - circuit interruption type. 120 VOLT Shoreline with Kussmaul Pump-Plus 1200 air compressor/ Battery charger. The one (1) receptacle shall be the auto-eject 20 WP and shall be installed near the left front wheel well.

SECTION II - BODY

BODY

The Body shall be a 26-foot walk-in style van, built from 3/16" aluminum.

BULKHEAD

One bulkhead with a pass through door shall be provided approximately 4 feet behind the driver's seat.

EXTERIOR STORAGE DRAWERS

Three (3) under floor exterior drawer storage compartments. Two (2) the left side, and one mounted towards the middle on the right side. Drawers shall have roller bearing hinges, and capable of supporting at least 250 pounds.

LIFT GATE

An electric motorized lift gate shall be mounted to the rear of the apparatus. Lift gate shall have a depth of approximately 42". Lift gate shall come equipped with a hand held remote control.

REAR DOORS

Twin 19" rear swing doors without glass. Key locking handle on right door and slam latches with inside release handles.

COMPARTMENT DESIGN AND CONSTRUCTION

One (1) exterior opening with rollup door shall be mounted in front of left rear tires. Compartment shall be accessible from inside the cab area. Compartment shall be designed to house Scott Revolve Air fill station.

One (1) exterior opening with rollup door shall be installed on the right rear of the apparatus. Compartment shall be large enough to house electric generator.

GENERATOR

Onan RV QD 12500 Diesel powered generator with the fuel supply plumbed from the apparatus fuel tank.

ELECTRICAL OUTLETS

Six (6) 120-volt outlets, two (2) interior, and (4) exterior (2 on each side) with weather proof covers.

CAB GLASS:

The cab and crew door glass shall be tinted, tempered glass. Each glass shall be fully retractable within the door and move within felt lined, fully reinforced channel.

STEERING WHEEL AND COLUMN:

The steering column shall be a tilt/telescopic type with an integral high beam/turn signal control switch. The warning "Hazard" light switch shall be mounted on the column. A rubber boot shall be installed to cover the steering shaft from the dash to the floor.

CAB SEATING:

The driver's seat should be fully adjustable air ride type with a high back design. This seat must be capable of rotating 180 degree clockwise.

Two, 2 persons spring loaded drop down bench seats shall be provided attached to the bulkhead wall on either side of the bulkhead door.

AWNING

Two (2) motorized 12-volt roll-up awnings, left side shall have side curtains (opposite exhaust side).

SECTION III INTERIOR

INTERIOR LIGHTING

Warning light (red) shall be mounted within the view of the driver. The light shall illuminate if any cabinet, door, or exterior equipment is not stored properly.

Three (3) 18" florescent lights (120-volts) mounted along the ceiling. Three (3) 12-volt lights shall also be mounted on the ceiling. Controls for both sets of lights to be within the reach of the driver.

AIR CONDITIONING:

An air condition with a minimum of 20,000 BTU with an overhead condenser shall be provided. It shall be capable of cooling the entire body area during peak summer months. . A roof mounted condenser with adequate BTU to meet the performance specification shall be installed on the cab roof. Condenser mounting below the cab or body is not acceptable. Evaporator unit/s shall be installed, so air is directed to the front cab. The evaporator unit/s shall have an adequate BTU rating to meet the performance specifications.

A second air conditioning unit shall be plumbed into the front dash. A compressor shall be installed on the engine of adequate CFM to meet the performance specification. The controls shall be located on the cab dash within easy reach of the driver.

HEATER/DEFROSTER

A heater/defroster will be provided. The heater ducts shall be vented in a manner to provide heat directed towards driver, and where the front passenger seat would be. The defroster ducts shall be designed to provide maximum defrosting capabilities for the windshield. Adjustable defroster louvers shall be provided for directing air flow to the side cab door windows. Heater defroster controls shall be located on the cab dash within easy reach of the driver. Fan shall operate only when the ignition switch is "ON". A high performance air conditioning system shall be furnished inside the cab.

RADIOS

One Motorola CDM1550 radio to be mounted within reach of the driver's seat.

Five (5) handheld radio chargers. Four (4) will be Motorola's and one Bendix King. Location to be determined at the pre-construction conference. Each charger shall be wired to a 12 volt source. Bendix King charger will be provided by purchaser.

ANTENNAS:

Two radio antenna lead shall be run on the inside of headliner from the dash to a mounted antennas on the cab roof. Location to be determined at the preconstruction conference.

VEHICLE INTERCOM SYSTEM:

There shall be a David Clark intercom system furnished in the chassis cab. The driver's headsets will have a push-to-talk radio interface to accept a Motorola CDM 1550. All wiring shall be recessed, to give a professional appearance. The intercom system shall be installed and have all wiring and components to render the system operational as follows:

- One (1) master station with two headset jacks in rear of cab.
- One (1) isolated radio interface module for driver.
- One (1) radio interface module for officer.
- One (1) radio cord junction module.
- One (1) radio interface cord.
- One (1) David Clark #6000 headsets with overhead mounting clip.

SIREN CONTROL:

One (1) Whelen model 295HFS2 electronic siren with microphone.

IV HOOKS

Four flush mounted IV interior ceiling hooks shall be provided above both bench seats.

SUN VISORS:

One padded sun visors with flip down arms shall be installed in front of driver's seat.

FLASHLIGHTS

Four (4) Streamlight Survivor division 2 flashlight model 90064. Location to be determined at the pre-construction conference.

Two (2) Streamlight Litebox rechargeable Lantern Flashlight-dual filament-vehicle mount system model 45706. Location to be determined at pre-construction conference.

TOILET

One Incinolet electric incinerating 120-volt toilet within an enclosed compartment. Compartment shall be at the left rear of the body. Exhaust fan, and light shall be installed.

SCBA FILL STATION

Scott Revolve Air fill station with six (6) Bottle Cascade (6000 psi bottles). Fill station shall be mounted in the compartment opening on the left side. The six (6) cascade bottles shall be mounted on the opposite side of the apparatus with air lines running up the wall, across the roof, and down the left side wall to fill station.

CUSTOM CARGO SHELVING

SECTION IV **EXTERIOR LIGHTING**

WARNING LIGHTS

A complete Whelen LED lighting package covering the front, rear, and side zones as required by NFPA 1901 shall be provided. Each proposal will include a list of warning lights for each zone.

3-M OPTICOM SYSTEM

A 3-M OPTICOM priority control system shall be supplied mounted to the cab roof. The emitter shall be a 3-M model 792 with a clear lens for optimum transmission range. A switch shall be mounted in the cab for use by the driver, and shall be deactivated when the parking brake is applied.

SCENE LIGHTING

Four (4) Whelen large scene lights, two each side. All lights shall be mounted below the retractable awning, and used for lighting on dark scenes.

Six (6) Federal GHSCENE scene lights, two (2) each side, two (2) rear. The side mounted lights shall be outside of the retractable awning. One in front and one behind the awnings arms.

SECTION V- PAINT FINISH AND LETTERING

PAINTING

The cab and body will be two tones and shall be to fire apparatus standards. There will be excellent gloss durability, color retention, free of dirt, sags, and orange peel. The color, reflective stripes and lettering will be determined during the pre-construction conference.

All exposed metal surfaces not chrome plated, polished stainless steel or bright aluminum tread plate shall be thoroughly cleaned and prepared for painting. The aluminum surfaces shall be properly etched using a high-pressure and high-temperature acid etching system.

Both the cab and body shall be painted. All removable items such as handrails, brackets, compartment doors, door hinges, trim, etc. shall be removed and painted separately to insure finish paint behind all mounted items. Body assemblies that cannot be finish painted after assembly shall be finish painted before assembly. Both aluminum and steel surfaces to be painted shall be primed with a two (2) component primer which is compatible with the finish coat. The cab shall be two-tone, with the upper section painted white and lower section of the cab and body painted red. Separation of the red and white cab shall be determined at the pre-engineering conference.

Topcoats and primers must be chrome and lead free.

PAINT CHASSIS FRAME ASSEMBLY:

The chassis frame assembly shall be painted black. Components that are included with the chassis frame assembly that are to be painted black are frame rails, cross members, axles, suspension, steering gear, fuel tank, body substructure supports, miscellaneous mounting brackets, etc.

WARRANTY - PAINT AND CORROSION:

Body exterior paint finish shall be warranted against blistering, peeling, bubbling, lack of adhesion or any other manufacturing or material defect **for a period of five (5) years.**

The body shall also be warranted against corrosion perforation for a period of ten (10) years. A copy of the manufacturer's warranty shall be included with the proposal.

LETTERING

Lettering shall be done in Gold Leaf, and shaded in black. Locations and size to be determined during the pre-construction conference. The following is needed:

Side "A"
PRESCOTT FIRE DEPARTMENT

Side "B"
EXCELLENCE IN SERVICE
WWW.FIRE@CITYOFPRESCOTT.NET (white overlay on stripe)

Side "C"
(Not in gold leaf)
STAY BACK 300 FEET

Side "D"
EXCELLENCE IN SERVICE
WWW.FIRE@CITYOFPRESCOTT.NET (white overlay on stripe)

DOOR LOGOS

Customer supplied factory installed logos shall be applied to each front door of the cab.

REFLECTIVE STRIPE

Prescott's custom designed 3M brand reflective stripe shall be affixed to the perimeter of the apparatus. The strip shall conform to NFPA reflectivity requirements. The location of reflective shall be determined at the pre-engineering conference