

# **Nephi Fire Department Bid Specifications**

## **3000 Gallon Tanker**

### **BOOSTER TANK**

- 3000-gallon “lifetime warranty”

### **HYDRANT FILL AND TANK LEVEL**

- Rear-Curb Side 2 ½” NST
- Master tank level gauge on the street side pump panel
- Additional readout at the rear street side

### **Spanner Wrenches**

- Installed on the street side rear panel

### **DUMP VALVES AND CHUTES**

Newton 10" square stainless steel manual Kwick-Dump Gate style (full flow) dump valves with stainless steel flip and telescopic chutes.

- Rear dump valve with 12” flip chute.
- Street side rear dump valve with 36” telescoping chute.
- Curb side rear dump valve with 36” telescoping chute.

### **PORTABLE TANK CARRIER**

- Manual tip-down, 3000 gallons, curb side enclosed on four (4) sides in aluminum Tread-brite with 3,000-gallon aluminum framed tank

### **BODY AND COMPONENTS**

- Sub-frame- aluminum or stainless steel
- Body-aluminum, stainless steel or poly (lifetime warranty”
- Bright polished aluminum fenderettes installed on the wheel wells to prevent splash and enhance appearance.
- The bottom edge of the entire apparatus will have an aluminum rub-rail installed to give the body, pump house, and rear step a pleasing appearance.
- One (1) tow eye located ahead and below the rear step on curb side.
- One (1) tow eye located ahead and below the rear step on street side.

## COMPARTMENTS

### **Street Side Front Low Compartment**

Compartment is located on the street side, ahead of the rear wheels. Approximate inside dimensions of 60" wide by 32" tall by 25" deep. Vented with turtle tile and roll-up door.

### **Curb Side Front Low Compartment**

Compartment is located on the curb side, ahead of the rear wheels. Approximate inside dimensions are 60" wide by 32" tall by 25" deep. Vented with turtle tile and roll-up door.

### **Compartment Options**

- **Spare SCBA Cylinder Holders**
  - Between Tandem Wheels Front Side, Street Side, Qty One (1)
  - Between Tandem Wheels Rear Side, Street Side, Qty One (1)
  - Between Tandem Wheels Front Side, Curb Side, Qty One (1)
  - Between Tandem Wheels Rear Side, Curb Side, Qty One (1)

## GRAB RAILS AND FOOT STEPS

- There are two (2) vertical grab rails provided at the rear, one each side.
- There are two (2) horizontal grab rails provided, one on each side, above the pump control panels, and below the cross lays for ease of loading and unloading the hose cross lay.
- There is one (1) grab rail located on street side of tank in the upper front corner for ease of loading and unloading hose cross lays.
- There is one (1) grab rail located on curb side of tank in the upper front corner of tank for ease of loading and unloading hose cross lays.
- Front Folding Step Street side, Qty (1)
- Front Folding Step Curb side, Qty (1)
- Lower Level Rear Folding Steps, Two (2); One (1) Street Side and One (1) Curb Side
- Hose Bed Access Ladder

## ELECTRICAL EQUIPMENT

- The electrical system will utilize Class1 Inc. ES-Key™ technology, UltraView™ displays and 1Touch switch modules, where applicable.

### **DOT Lighting**

- A total of nine (9) LED clearance lights and seven (7) red LED lights installed at the rear.
- Two (2) amber LED lights are installed on the front street and curb sides.
- Reflectors are installed per DOT specifications.
- A red warning light visible to the driver in the chassis cab that illuminates when a compartment door is ajar/open.
- An illuminated license plate bracket installed at rear.

### **Lower Level Rear Lighting**

**Quad-cluster Tail Light Package**-Two (2) LED Quad-Cluster combination red LED stop/tail, clear halogen backup light, amber LED arrow type turn signal, and red LED warning light, installed at the rear. Light assemblies provided in chrome plated housing.

**Side Mount Turn Signals**-LED side-mounted DOT approved turn signal repeaters, mounted between the rear wheels on the body side to provide visible lateral turn warning.

### **Camera System**

**Rear view Camera**-One (1) rear view camera system installed. Camera system includes a wide-angle rear mounted camera and 7" monitor.

### **Power Distribution Options**

**Chassis Duplex Outlet**-One (1) 110v duplex outlet is mounted in chassis cab and connected to the shoreline connection.

## **EMERGENCY SIREN AND LIGHTING EQUIPMENT**

**Light Bar**-Whelen model JE2NFPA Justice Series light bar (or equivalent) Super-LED low-profile, 56" long. Covers front and front side zones. The light bar has four (4) linear corner modules with nine (9) Super-LED light heads per module, and six (6) CON3 modules with three (3) CON3 Super-LED light heads per module.

**Siren**-Whelen model 295SLSA1 (or equivalent) Siren 200 watt, six (6) function Class A electronic siren

**Federal Q-Siren Q2B** mounted through front bumper street side  
Additional Switch mounted to the center console

**Lower Level Lights-Front/Rear Whelen 600 Series LED (or equivalent)**

Two (2) Whelen 600 series LED lights mounted to the grill of the chassis and two (2) mounted on the rear of the body in the quad-cluster with a chrome trim ring.

**Intersection Lights-Red, Whelen 600 Series LED (or equivalent), Three (3) each side**

**Upper Level Rear Warning/Scene Lights**-Whelen M9V2R and M6V2R (or equivalent)

Two (2) Whelen M9V2R Series Combination LED Scene Light/Flashers on each side of the tank, and two (2) M6V2R Series Combination LED Scene Light/Flashers on the rear of the tank.

**Ground Lights**-Six (6) ground lights installed to illuminate the area below the apparatus and chassis. Two (2) lights are installed under the cab, two (2) lights installed below the front body, and two (2) lights are installed below the rear step area. Grounds lights will be activated when parking brake is applied.

**Accessory Lights**-Two LED telescoping lights mounted to the pump house

**Whelen Pioneer model PFP1P1 telescoping lights (or equivalent)**

Street side front corner of pump house, Qty (1)

Curb side front corner of pump house, Qty (1)

## PAINTING, LETTERING, & STRIPING

**Color Matched Red**

**Vinyl Lettering**

Provided on the chassis doors.

Provided for the customer unit number on the street and curb side chassis fenders.

**Reflective striping**

The apparatus body and chassis will have a reflective stripe on each side and the front per NFPA 1901 standards.

- 4" wide white reflective stripe with a 1" wide white reflective stripe spaced approximately 1/2" above.
- White reflective tape inside chassis doors- Per NFPA 1901 standards any door designed to allow persons to enter or exit has a minimum of 96 square inches of retro-reflective material affixed to the inside of the door.
- **Rear Chevron**-Diamond Grade Chevron 100%Per NFPA 1901 standards, 100 percent of the rear will include red and fluorescent yellow/green diamond grade chevron retro-reflective striping installed, with each stripe a minimum of 6" wide.

## Mud Flaps

There are two mud flaps installed behind the rear wheels.

- The mud flaps are ¼ inch thick black rubber.
- The bottom of the mud flaps fitted with chrome weights.

## PUMP AND PLUMBING-STAINLESS STEEL PUMP HOUSE

**Hale QFlo1250 Split-Shaft Pump (or equivalent)**

Pump Ratings:

1250 GPM @ 150 PSI

875 GPM @ 200 PSI

625 GPM @ 250 PSI

- Fire Research “Pump Boss 400 Series Auto Governor”
- Auxiliary Intakes-One (1) 2 ½” Gated Intake street side
- Non-Gated Master Intakes 6”-Two (2)
- Discharges: With “T” handle controls, liquid filled stainless steel gauges, 30-degree elbow cap and chain
  - One (1) 2 ½” Discharge, Street Side
  - One (1) 2 ½” Discharge, Curb Side
  - One (1) 3” Discharge, Curb Side
  - One (1) 2 ½” Curb Rear Discharge
  - One (1) 2” Front Discharge

#### **Tank Fill/ Tank to Pump**

Tank Fill Valve 2”

Tank to Pump 3”, Air Control

#### **Foam System**

**Foam Pro 1600**

A Foam Pro, Model #1600, Class “A” foam system plumbed to the 1 ½” pre-connected cross lays and front 1 ½” discharge. 10-gallon integrated foam tank.

#### **HOSE TRAYS, PRE-CONNECTS AND CROSS LAYS**

Two (2) 1 ½ " NST male pre-connects, 2” valves

Two (2) Cross Lay Dividers

Black Crosslay Cover

Hose bed with two (2) dividers and cover

#### **EQUIPMENT STORAGE AND MOUNTING**

Two (2) hard suction hose trays located on the street side of the tank with two (2) 6” x 10’ PVC flexible hard suction hoses

#### **CHASSIS ACCESSORIES**

**Hub and Lug nut covers**

Stainless steel hub and lug nut covers are installed on front and rear aluminum wheels

**Chassis Step Overlays**

Freightliner factory steps is removed and replaced with a complete aluminum Tread-Brite overlay with NFPA compliant Diamondback® deck plate stepping surfaces. One full length cover is provided on each side of the chassis.

**Kussmaul HO Series** air and battery conditioner system with manual shoreline installed.

**Air Horns**

Two (2) Stutter Tone air horns mounted one on each side of the hood. Steering wheel horn switch will control the air horns with one (1) secondary switch located on the pump control panel to control the chassis air horns.

### Extended Front Bumper with Hose Well

Chassis front bumper is extended 24" with a hose well for approximately 150' of 1 3/4" hose. The extension has an aluminum Tread-Brite overlay. The hose well is open to the top, be made of aluminum Tread-Brite, include floor drains, rubber floor tiles, and black vinyl cover

### Tire Pressure Indicators

### Heat Exchanger

### Seat SCBA Brackets

SCBA seats in chassis cab equipped with remote release locking brackets for positively securing firefighter air packs per department's specifications.

### Bumper Guides

Two lighted bumper guides installed on the outer corners of the extended front bumper.  
Wheel Chock-Zico folding wheel chocks installed underneath street side front locker.

Two (2) 6" x 10' PVC flexible hard suction hoses

## CHASSIS

Body builder furnished per specification: (or equivalent)

<b>Chassis Summary</b>			
Manufacturer	Freightliner	Cab to Axle (in.)	166"
Model	M2-112 Crew with four (4) SCBA seats	Wheel Base (in.)	279"
Engine Manufacturer	Cummins	Front Axle Rating (Lbs.)	18,000#
Engine Model	L9	Rear Axle Rating (Lbs.)	46,000#
Horsepower	450	Paint Color Code	Med Red Elite B/C