



THE CORPORATION OF THE CITY OF NIAGARA FALLS  
REQUEST FOR TENDER-SUPPLY  
RFT2-2022  
SUPPLY & DELIVERY OF ONE (1) OF FIRE TANKER TRUCK

SPEC. #90A-01  
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SPECIFICATIONS & CONFIRMATION

GENERAL SPECIFICATIONS

This unit shall be a new current model year with all standard equipment plus all other equipment outlined in this specification, **Spec #90A-01**.

**Bids submitted will be considered non-compliant where minimums are not met and 'No' is specified.**

DETAILED SPECIFICATIONS

SPECIFY

MAKE AND MODEL

YEAR \_\_\_\_\_

MAKE Kenworth

Yes \_\_\_\_\_ No \_\_\_\_\_

MODEL Kenworth T-880

Yes \_\_\_\_\_ No \_\_\_\_\_

COLOUR Solid Red PPG=FBCH 71663

Yes \_\_\_\_\_ No \_\_\_\_\_

1. GENERAL REQUIREMENTS

SPECIFY

Vehicle shall be a new fire department tanker apparatus designed for emergency service use

Yes \_\_\_\_\_ No \_\_\_\_\_

Actual overall height of the vehicle shall not exceed 138 inches (3.5 metres). This measurement shall be taken with the tires properly inflated and the apparatus unloaded. The station door opening is 140" total height

\_\_\_\_\_ inches

Actual overall length of the finished vehicle shall not exceed 420 inches (10.7 metres)

\_\_\_\_\_ inches

Apparatus shall meet the requirements of NFPA 1901 Standard for Automotive Fire Apparatus, newest edition. Customer intends to equip the finished apparatus with such equipment required to meet same

Yes \_\_\_\_\_ No \_\_\_\_\_

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**1. GENERAL REQUIREMENTS (Cont'd)**

**SPECIFY**

Complete vehicle to be CAN/ULC S515-13 tested and plated to be a "Mobile Water Supply Apparatus" (tanker), pump tested to 5,000LPM Yes\_\_\_\_\_ No\_\_\_\_\_

Complete vehicle to meet CAN/ULC S515-13, all Canadian and Ontario vehicle safety standards Yes\_\_\_\_\_ No\_\_\_\_\_

In the event of a conflict between the requirements of NFPA, CAN/ULC S515-13 or the specifications contained herein, the more restrictive shall prevail Yes\_\_\_\_\_ No\_\_\_\_\_

Vehicle shall be equipped for registry and use in Canada. The vehicle shall be equipped with daytime running lights, metric speedometer, and other requirements of the Canadian Motor Vehicle Safety Standards (CMVSS) Yes\_\_\_\_\_ No\_\_\_\_\_

FAMA safety guide to be supplied Yes\_\_\_\_\_ No\_\_\_\_\_

National Safety Mark (or equal for import vehicles) supplied Yes\_\_\_\_\_ No\_\_\_\_\_

Yellow PMCVI sticker supplied for Ontario prior to delivery Yes\_\_\_\_\_ No\_\_\_\_\_

Yellow PMCVI inspection/sticker at end of first year and end of second year; warranty items to be automatically replaced, non-warranty chassis items to be quoted and replaced with written approval Yes\_\_\_\_\_ No\_\_\_\_\_

Undercoating prior to delivery, with undercoating at the end of the first year warranty and end of the second year warranty Yes\_\_\_\_\_ No\_\_\_\_\_

All 2-year warranty visits to be in Niagara Falls, or dealer to pick-up and drop-off truck (no additional charges) Yes\_\_\_\_\_ No\_\_\_\_\_

Ontario license plates (permanent for fire trucks) Yes\_\_\_\_\_ No\_\_\_\_\_

Delivery to fire department, Station #1 5815 Morrison Street Yes\_\_\_\_\_ No\_\_\_\_\_

Four (4) hour operator session (per truck, during the evening or weekend) Yes\_\_\_\_\_ No\_\_\_\_\_

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**1. GENERAL REQUIREMENTS (Cont'd)**

**SPECIFY**

All NFPA compliant options available for fire trucks (per Kenworth brochure).

Yes \_\_\_\_\_ No \_\_\_\_\_

**2. CAB & CHASIS**

**SPECIFY**

New or demonstrator Kenworth T-880, 2-door day cab, tandem axle chassis intended for fire truck service, suitable to accommodate a 3,500 US gallon (13,250 litre) water tank and firefighting equipment. T880 with "MX Optimized Hood" option selected (NO EXCEPTIONS)

Yes \_\_\_\_\_ No \_\_\_\_\_

Front and rear axle rating provided to offer 8% weight reserve or better

Yes \_\_\_\_\_ No \_\_\_\_\_

Cab shall be equipped with an exterior aerodynamic sun visor

Yes \_\_\_\_\_ No \_\_\_\_\_

Cab shall be equipped with standard instrument package, including cab heater with defroster, air conditioning, power door locks, power windows, electric horn, and electric windshield wipers with intermittent control

Yes \_\_\_\_\_ No \_\_\_\_\_

The cab shall be equipped with a keyless ignition switch for fire truck service

Yes \_\_\_\_\_ No \_\_\_\_\_

Cab shall have slate grey coloured seats for 2 persons with a Dura Supreme high-back driver and passenger side air suspension seat with dual arm rests

Yes \_\_\_\_\_ No \_\_\_\_\_

Cab shall be equipped with a metal console between the seats to locate the siren controller, emergency light controls, customer-supplied radio, and storage compartment

Yes \_\_\_\_\_ No \_\_\_\_\_

Cab shall have NFPA compliant red seat belts, limited driver air seat height, and left-hand and right-hand NFPA compliant grab handles

Yes \_\_\_\_\_ No \_\_\_\_\_

A Vehicle Data Recorder (VDR) system shall be provided in accordance with NFPA 1901

Yes \_\_\_\_\_ No \_\_\_\_\_

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**2. CAB & CHASSIS (Cont'd)**

**SPECIFY**

A Rear-View Safety (or equivalent) model RVS-770615 camera system with one (1) wired, weatherproof, night-vision cameras and 7-inch LCD colour monitor shall be provided. The camera shall be located high on the tank above the rear water tank dump

Yes \_\_\_\_\_ No \_\_\_\_\_

Heated mirrors shall be provided on each side of the vehicle with motorized adjustment

Yes \_\_\_\_\_ No \_\_\_\_\_

Chassis frame rails shall be constructed of minimum 10-5/8 inch heat-treated steel, 120,000 PSI yield

Yes \_\_\_\_\_ No \_\_\_\_\_

One-piece polished stainless steel front bumper to include: (1)100mm (2 1/2") discharge off passenger side with 4" storz adapter

Yes \_\_\_\_\_ No \_\_\_\_\_

Two (2) heavy duty open tow hooks/eyes shall be bolted to the chassis frame under the front bumper and to be attached to chassis frame and extend through the rear wall

Yes \_\_\_\_\_ No \_\_\_\_\_

A red LED beacon light inside the cab and an audible alarm shall indicate a compartment door is open when the transmission is in drive

Yes \_\_\_\_\_ No \_\_\_\_\_

Double frame - highest capacity and most suitable for tanker application

Yes \_\_\_\_\_ No \_\_\_\_\_

Aluminum black painted cab console - maximum size available for Kenworth chassis; to include switches and other components, include space for FD radio; include storage area with lift-up/button latch

Yes \_\_\_\_\_ No \_\_\_\_\_

Cab door interior reflective - 96 sq/in minimum

Yes \_\_\_\_\_ No \_\_\_\_\_

Complete vehicle information placard - best fit inside cab

Yes \_\_\_\_\_ No \_\_\_\_\_

Full stainless steel wheel trim including front hub with window, rear full hub and axle cover, and all nut covers

Yes \_\_\_\_\_ No \_\_\_\_\_

Install Shop air hose line within foot well driver side

Yes \_\_\_\_\_ No \_\_\_\_\_

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**3. VEHICLE WEIGHT & DIMENSIONS**

**SPECIFY**

Gross Vehicle Weight Rating (GVWR) and front to rear weight distribution of the vehicle shall be within the limits specified by the chassis manufacturer, NFPA standards, and Ontario Ministry of Transportation regulations

Yes \_\_\_\_\_ No \_\_\_\_\_

**4. ENGINE**

**SPECIFY**

Cummins X15 505 HP engine

Yes \_\_\_\_\_ No \_\_\_\_\_

Jacobs engine compression brake with high, medium, low, and off settings

Yes \_\_\_\_\_ No \_\_\_\_\_

Dry type air intake filter and ember separator. Air intake filter restriction indicator light on the instrument panel to indicate that the air cleaner element requires replacement

Yes \_\_\_\_\_ No \_\_\_\_\_

Heavy-duty cooling system shall be provided that meets NFPA, ULC standards, engine and transmission manufacturers' specifications

Yes \_\_\_\_\_ No \_\_\_\_\_

**5. TRANSMISSION & DRIVELINE**

**SPECIFY**

Allison 4000EVS transmission, with push-button automatic selector panel

Yes \_\_\_\_\_ No \_\_\_\_\_

Driveline shall withstand the horsepower and torque of the engine and transmission

Yes \_\_\_\_\_ No \_\_\_\_\_

**6. EXHAUST**

**SPECIFY**

Exhaust tubing shall be stainless steel

Yes \_\_\_\_\_ No \_\_\_\_\_

Exhaust system shall have a horizontal crossover diesel particulate filter (DPF) and selective catalyst reduction (SCR) with ground-dump tailpipe under the apparatus to the passenger side of truck

Yes \_\_\_\_\_ No \_\_\_\_\_

Diesel exhaust fluid (DEF) tank shall have a minimum capacity of 11 US gallons (41 litres), shall be located on the driver's side of the chassis, and shall have a polished tank cover

Yes \_\_\_\_\_ No \_\_\_\_\_

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**6. EXHAUST (Cont'd)**

**SPECIFY**

DEV tank and all other items to be mounted under the cab - not behind the cab - to prevent being relocated into a body compartment Yes \_\_\_\_\_ No \_\_\_\_\_

Exhaust to terminate on the passenger's side ahead of the rear axles at body post or fender area (so FD installed Plymovent can be installed) Yes \_\_\_\_\_ No \_\_\_\_\_

Final exhaust mounted between fenderette and compartment (for FD installed Nederman), NOT below door Yes \_\_\_\_\_ No \_\_\_\_\_

**7. FUEL TANK**

**SPECIFY**

Polished aluminum fuel tank shall be located on the passenger side of the chassis, and shall have a 60 US gallon (227 litres) minimum capacity and polished straps \_\_\_\_\_ litres

Maximum size fuel tank available under cab - polished finish with polish straps Yes \_\_\_\_\_ No \_\_\_\_\_

**8. FRONT AXLE**

**SPECIFY**

Front axle equipped with oil lubricated wheel bearing seals, and taper leaf springs with heavy duty shock absorbers Yes \_\_\_\_\_ No \_\_\_\_\_

Front axle and suspension - rated as need with reserve - state what is provided:(GAWR) **minimum** capacity of 21,000 pounds \_\_\_\_\_ lbs.

**9. REAR AXLES**

**SPECIFY**

Rear tandem axles with hub pilot hubs, oil seals, and Hendrickson self-leveling air ride suspension Yes \_\_\_\_\_ No \_\_\_\_\_

Rear axles and suspension - rated as need with reserve - state what is provided:(GAWR) minimum capacity of 52,000 pounds \_\_\_\_\_ lbs.

**10. BRAKES**

**SPECIFY**

Rapid build-up air brake system with anti-lock brake system (ABS) on the front and rear axles and shall meet FMVSS requirements Yes \_\_\_\_\_ No \_\_\_\_\_

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**10. BRAKES (Cont'd)**

**SPECIFY**

Front disc brakes with automatic slack adjusters Yes \_\_\_\_\_ No \_\_\_\_\_

Rear S-cam type drum brakes with automatic slack adjusters Yes \_\_\_\_\_ No \_\_\_\_\_

Emergency brake system shall automatically apply rear spring brakes if air pressure falls below 25 PSI. Audible alarm shall indicate when system air pressure is below 60 PSI Yes \_\_\_\_\_ No \_\_\_\_\_

Parking brake system shall engage the rear spring brakes by push-pull control valve on the dashboard of the cab Yes \_\_\_\_\_ No \_\_\_\_\_

Brake system shall include a heated air dryer Yes \_\_\_\_\_ No \_\_\_\_\_

Heated automatic moisture ejector with manual drain on the supply reservoir (wet tank). All other air reservoirs shall have manual drain valves with pull cords Yes \_\_\_\_\_ No \_\_\_\_\_

**11. STEERING**

**SPECIFY**

Vehicle shall be equipped with power steering Yes \_\_\_\_\_ No \_\_\_\_\_

Vehicle shall be equipped with a tilt and telescoping steering column Yes \_\_\_\_\_ No \_\_\_\_\_

**12. WHEELS & TIRES**

**SPECIFY**

Vehicle shall be equipped with Alcoa Yes \_\_\_\_\_ No \_\_\_\_\_

Polished aluminum front and rear (all wheels), with hub and lug nut trim; front trim top include cutout inspection window Yes \_\_\_\_\_ No \_\_\_\_\_

Goodyear G296 MSA 385/65R22.5 18 PR tubeless radial tires shall be on the steer axle Yes \_\_\_\_\_ No \_\_\_\_\_

Goodyear G182 RSD 11R24.2 16 PR tubeless radial tires with mud and snow treads shall be on the drive axles Yes \_\_\_\_\_ No \_\_\_\_\_

(2) – SAC-44-E Folding Aluminum wheel chocks with SQCH-44-H brackets installed under L1 compartment Yes \_\_\_\_\_ No \_\_\_\_\_

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**13. VEHICLE ELECTRICAL SYSTEM**

**SPECIFY**

Three (3) 12-volt batteries rated for a minimum of 950 Cold Cranking Amps (CCA) each shall be provided (2,850 CCA total)

\_\_\_\_\_ CCA total

Master battery switch shall be located between the seats on the metal console within easy reach of the driver

Yes \_\_\_\_\_ No \_\_\_\_\_

Heavy-duty alternator intended for fire service applications that produces high output at low engine RPMs shall meet NFPA requirements.

Yes \_\_\_\_\_ No \_\_\_\_\_

An electronic load management system shall monitor the 12-volt electrical system and automatically reduce load during a low voltage condition and sequentially restore circuits as the system voltage recovers.

Yes \_\_\_\_\_ No \_\_\_\_\_

20-amp auto-eject yellow with 12v remote auto charge 1200 with display. Auto eject and charger and air inlet to be built into a checker plate box and installed adjacent to the driver's steps in a best fit location.

Yes \_\_\_\_\_ No \_\_\_\_\_

Chassis batteries to be located in upper dunnage in best fit location, with consideration of future deck gun

Yes \_\_\_\_\_ No \_\_\_\_\_

Kenworth battery studs to be located on captains side rear of cab through checkerplate.

Yes \_\_\_\_\_ No \_\_\_\_\_

Permanent ignition key; master battery switch on floor between driver's seat and cab door with "ON" light and label

Yes \_\_\_\_\_ No \_\_\_\_\_

12V Weldon multiplex electrical system and components - no exception (matches current fleet Spartan chassis electrical systems) NFPA electrical testing - results to be provided with manual

Yes \_\_\_\_\_ No \_\_\_\_\_

Load manager, VDR/seatbelt monitor system all included and integral with Weldon multiplex system; seatbelt display located on cab dash and connected to door ajar alarm/light

Yes \_\_\_\_\_ No \_\_\_\_\_

LED amber and red DOT lighting to meet Ontario HTA requirements

Yes \_\_\_\_\_ No \_\_\_\_\_

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**13. VEHICLE ELECTRICAL SYSTEM (Cont'd)**

**SPECIFY**

Rubber arm marker lights on rear corners of body  
Mid-body turn signal in rub rails

Yes \_\_\_\_\_ No \_\_\_\_\_

All stepping surfaces to be illuminated with integral lights (with steps)  
or Whelen OAC0EDCR lights

Yes \_\_\_\_\_ No \_\_\_\_\_

Step lights to turn on when truck parking brake is applied

Yes \_\_\_\_\_ No \_\_\_\_\_

Whelen M6BTT brake light, M6T turn light, M6BUW back-up lights in  
M6FCV4 bezels

Yes \_\_\_\_\_ No \_\_\_\_\_

6-fuse Blue Sea panel located in cab console, wired battery direct for  
FD installed future items

Yes \_\_\_\_\_ No \_\_\_\_\_

(2) USB outlets direct connected to battery located in cab console  
captain side, for MDT connection.

Yes \_\_\_\_\_ No \_\_\_\_\_

(2x) 120V 20 amp duplex outlet located on front upper wall body  
compartment L1, wired to shore power

Yes \_\_\_\_\_ No \_\_\_\_\_

Body painted red to match chassis paint; to be equal to PPG FBCH  
71663 red.

Yes \_\_\_\_\_ No \_\_\_\_\_

Body compartments to be unpainted/sanded aluminum; state cost to  
paint light/medium grey heavy-duty paint

Yes \_\_\_\_\_ No \_\_\_\_\_

Commercial vehicle amber/red reflectors

Yes \_\_\_\_\_ No \_\_\_\_\_

Red and fluorescent yellow-green chevrons on rear body - 100%  
coverage required

Yes \_\_\_\_\_ No \_\_\_\_\_

Amdor 12" LED ground lights; located under all cab doors, pump, all  
compartments, 2x under tailboard; lights to turn on in park and when  
truck is in reverse

Yes \_\_\_\_\_ No \_\_\_\_\_

Roll-up doors to be Amdor painted doors to match chasis, with  
magnetic switches and full height LED lights on both sides; with  
Amdor drip trays, drain tubes to below body

Yes \_\_\_\_\_ No \_\_\_\_\_

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**13. VEHICLE ELECTRICAL SYSTEM (Cont'd)**

**SPECIFY**

Full depth adjustable shelves, unpainted 0.188" aluminum with black Turtle-Tile, welded corners, drain holes, shelf mounts. R1, R3, R4 and L1.

Yes \_\_\_\_\_ No \_\_\_\_\_

Full depth 500lb roll-out trays, unpainted 0.188" aluminum with black Turtle-Tile, welded corners, drain holes, red reflective on all edges. R1, R4, L2 and L1.

Yes \_\_\_\_\_ No \_\_\_\_\_

Amdor hose bed door lights, 1x 12" light per door (4x total)

Yes \_\_\_\_\_ No \_\_\_\_\_

**14. LIGHTING**

**SPECIFY**

Headlights shall have "Daytime Running" light feature

Yes \_\_\_\_\_ No \_\_\_\_\_

All cab/chassis lights to be LED,  
(including headlights)

Yes \_\_\_\_\_ No \_\_\_\_\_

Rear Side Lower Zone C: Two (2) Whelen M6 series model M6FCV4 vertical tail light clusters with 4 light chrome flange shall be provided, each with one (1) C6LR red LED brake/tail light, one (1) C6LR red LED warning light passenger side, one (1) C6LB blue LED warning light driver side, one (1) C6T amber LED turn signal light, and one (1) C6LW white LED reverse light. All lenses to be clear/white

Yes \_\_\_\_\_ No \_\_\_\_\_

Right Side Upper Zone B: Two (2) Whelen 900 series model C9SL Scene lights with chrome flange shall be located at the top front and rear of the tank. Scene lights shall be controlled by switches in the centre console in the cab. All lenses to be clear/white

Yes \_\_\_\_\_ No \_\_\_\_\_

Rear Side Upper Zone C: Two (2) Whelen 900 series model C9SL Scene lights with chrome flange shall be located at the top left and right rear side of the apparatus above the warning lights. The rear scene lights shall activate when the transmission is placed in reverse, shall be controlled by switches in the centre console in the cab, and by a weatherproof switch at the rear of the apparatus. All lenses to be clear/white

Yes \_\_\_\_\_ No \_\_\_\_\_

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**14. LIGHTING (Cont'd)**

**SPECIFY**

Left Side Upper Zone D: Two (2) Whelen 900 series model C9SL Scene lights with chrome flange shall be located at the top left and right rear side of the apparatus blow the warning lights. The rear scene lights shall activate when the transmission is placed in reverse, shall be controlled by switches in the centre console in the cab, and by a weatherproof switch at the rear of the apparatus. All lenses to be clear/white

Yes \_\_\_\_\_ No \_\_\_\_\_

Clearance lights, tail lights, brake lights, and turn signals shall be LED

Yes \_\_\_\_\_ No \_\_\_\_\_

(2) – Glick rubber arm amber/red marker lights installed on the rear body corners, one on each side

Yes \_\_\_\_\_ No \_\_\_\_\_

LED step lights shall illuminate the area around the cab doors when a door is opened

Yes \_\_\_\_\_ No \_\_\_\_\_

LED ground lights shall illuminate the ground area around the cab doors and the sides and rear of the apparatus

Yes \_\_\_\_\_ No \_\_\_\_\_

**15. EMERGENCY WARNING DEVICES**

**SPECIFY**

All Emergency lights shall be Whelen LED lights and shall be controlled by switches located in the centre console in the cab.

Yes \_\_\_\_\_ No \_\_\_\_\_

Front Upper Zone A: One (1) 62 inch Whelen model JE0NFPA light bar on the cab roof. Driver side: 2x LED red corner w/ 3x forward facing red lights, Centre: 3x white, Passenger side: 2x LED blue corner w/ 3x forward facing blue lights

Yes \_\_\_\_\_ No \_\_\_\_\_

Left side upper body - 2x M9J red/blue warning lights; 2x M9LZC scene lights

Yes \_\_\_\_\_ No \_\_\_\_\_

B - Upper warning lights right side.

2x - M9R front body corner to be red / rear body corner to be M9B blue; 2x M9LZC scene lights

Yes \_\_\_\_\_ No \_\_\_\_\_

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**15. EMERGENCY WARNING DEVICES (Cont'd)**

**SPECIFY**

C - Upper warning lights rear side.

2x - M9R front body corner to be red / rear body corner to be M9B blue; 2x M9LZC scene lights

Yes \_\_\_\_\_ No \_\_\_\_\_

D - Upper warning lights left side.

2x - M9R front body corner to be blue / rear body corner to be M9B red; 2x M9LZC scene lights

Yes \_\_\_\_\_ No \_\_\_\_\_

A - Lower warning lights on front grill.

2x - right side M6B red / left side to be M6J (blue)

Yes \_\_\_\_\_ No \_\_\_\_\_

B – Lower warning lights right side one light right side of engine hood M6B (red), one light forward of rear axle M6B (red) and one light rearward of the rear axle M6J (blue)

Yes \_\_\_\_\_ No \_\_\_\_\_

C – Lower warning lights – light on right side to be M6B (red) and left to be M6J (blue)

Yes \_\_\_\_\_ No \_\_\_\_\_

D – Lower warning lights right side one light left side of engine hood M6B (red), one light forward of rear axle M6J (blue) and one light rearward of the rear axle M6B (red)

Yes \_\_\_\_\_ No \_\_\_\_\_

Rear/brake cluster - 2x M6J red/blue warning lights

Yes \_\_\_\_\_ No \_\_\_\_\_

Federal Signal e-Q2B electronic siren shall be provided with siren control head located in the centre console in the cab

Yes \_\_\_\_\_ No \_\_\_\_\_

One (1) Federal Signal model BP200-Q chrome 200-watt siren speaker shall be recess mounted in the front bumper, to be covered on three sides from front tire debris

Yes \_\_\_\_\_ No \_\_\_\_\_

Two (2) Dual 21" or 24" air horns shall be recessed mounted in the front bumper. controlled with dual lanyards

Yes \_\_\_\_\_ No \_\_\_\_\_

A Whelen TAL65 traffic board shall be located on the rear of the apparatus upper wall, with the control head located in the centre console within the cab

Yes \_\_\_\_\_ No \_\_\_\_\_

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**16. APPARATUS BODY (Cont'd)**

**SPECIFY**

Five (5) enclosed compartments shall be provided on the driver's side, One for the pump panel, second in front of the rear wheels, third and fourth above the rear wheels and five behind the rear wheels on each side

Yes \_\_\_\_\_ No \_\_\_\_\_

All storage compartments shall be equipped with Dri-Dek tiles

Yes \_\_\_\_\_ No \_\_\_\_\_

All compartments to include external vents

Yes \_\_\_\_\_ No \_\_\_\_\_

All compartments to include drain holes for compartment wash-out

Yes \_\_\_\_\_ No \_\_\_\_\_

Weatherproof proximity switches in each storage compartment shall activate the compartment lights and shall provide a signal to the door open warning indicator in the cab

Yes \_\_\_\_\_ No \_\_\_\_\_

All exterior stepping, standing, and walking surfaces shall have a slip resistant surface in compliance with NFPA 1901 requirements

Yes \_\_\_\_\_ No \_\_\_\_\_

Rub rails shall be installed beneath the compartment doors to protect from damage

Yes \_\_\_\_\_ No \_\_\_\_\_

Handrails shall be provided wherever required. All handrails shall be knurled aluminum of not less than 1-1/4" in diameter

Yes \_\_\_\_\_ No \_\_\_\_\_

Fenders shall be integral with the side of the body. Fender wells shall be constructed with circular full inner liners

Yes \_\_\_\_\_ No \_\_\_\_\_

Bright polished aluminum fenderettes shall be installed around the rear wheel wells

Yes \_\_\_\_\_ No \_\_\_\_\_

A backup alarm shall be provided that activates when the transmission is in reverse

Yes \_\_\_\_\_ No \_\_\_\_\_

Two (2) closed toe eyes shall be securely mounted at the rear of the apparatus

Yes \_\_\_\_\_ No \_\_\_\_\_

Chrome front bumper contoured to match cab

Yes \_\_\_\_\_ No \_\_\_\_\_

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**16. APPARATUS BODY (Cont'd)**

**SPECIFY**

Fire body layout must take into consideration to overall vehicle maximum length Yes\_\_\_\_\_ No\_\_\_\_\_

Fire body to be made from 0.125 and 0.188 3003 H32 aluminum, no exception to grades of aluminum accepted Yes\_\_\_\_\_ No\_\_\_\_\_

Fire body to be full welded - no bolted construction is acceptable Yes\_\_\_\_\_ No\_\_\_\_\_

All horizontal surfaces to be designated as an NFPA/ULC stepping surface and covered with embossed diamond plate or equal; "NO STEP" signs are not acceptable Yes\_\_\_\_\_ No\_\_\_\_\_

Fire body front wall to be covered with aluminum diamond plate Yes\_\_\_\_\_ No\_\_\_\_\_

Body to be heavy-duty mounted to chassis frame, but allow for flex and twist of frame under normal and emergency driving conditions Yes\_\_\_\_\_ No\_\_\_\_\_

Body - left side - full height compartment ahead of axles - width to be determined by manufacturer and sized as required (L1 compartment) Yes\_\_\_\_\_ No\_\_\_\_\_

Body - left side - no compartments over rear axles Yes\_\_\_\_\_ No\_\_\_\_\_

Body left side - low height compartment behind rear axles - width to be determined and sized as required (L2) Yes\_\_\_\_\_ No\_\_\_\_\_

Body - right side - full height compartment ahead of axles - width to be determined by manufacturer and sized as required (R1 compartment) Yes\_\_\_\_\_ No\_\_\_\_\_

Body - right side - 2x compartments over rear axles- width to be determined and sized as required (R2 and R3) Yes\_\_\_\_\_ No\_\_\_\_\_

Body - right side - full height compartment behind rear axles - width to be determined by manufacturer and sized as required (R4 compartment) Yes\_\_\_\_\_ No\_\_\_\_\_

All compartments to include unistrut for adjustable shelves Yes\_\_\_\_\_ No\_\_\_\_\_

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**16. APPARATUS BODY (Cont'd)**

**SPECIFY**

Narrow adjustable shelves for compartments L1, R1, R3, R4      Yes \_\_\_\_\_ No \_\_\_\_\_

Single bottle SCBA tube storage between rear axles, 1x on each side      Yes \_\_\_\_\_ No \_\_\_\_\_

Zico PTS-HA portable tank lift to be provided, located over left side rear axles and rear compartment; to include painted tank cover; ability to store 3,500USG Husky tank to fit custom size porta tank      Yes \_\_\_\_\_ No \_\_\_\_\_

2x 5"x10' suction hose to be stored in separate aluminum painted box with inside access with velcro straps above portable tank storage cover (to access when the tank rack is down) to be approved by FD      Yes \_\_\_\_\_ No \_\_\_\_\_

Zico portable tank rack to include appropriate reflective tape, warning lights and alarm when used; to be connected to the door-ajar system in the cab      Yes \_\_\_\_\_ No \_\_\_\_\_

Hosebed to be above the water tank; hosebed to hold hose requested in loose equipment section      Yes \_\_\_\_\_ No \_\_\_\_\_

Divider provided to separate hosebed fill towers with main hosebed storage area      Yes \_\_\_\_\_ No \_\_\_\_\_

3x main hosebed dividers to be provided, with handhold cutouts on the end (and attached to track to allow them to be adjusted)      Yes \_\_\_\_\_ No \_\_\_\_\_

NFPA/ULC stepping surface approved embossed diamond plate doors provided - 2x doors per side/4x total      Yes \_\_\_\_\_ No \_\_\_\_\_

Doors to include handrails on ends, and small handle on inside of front doors (to pull them close while they are open)      Yes \_\_\_\_\_ No \_\_\_\_\_

End doors to include black tarp secured to the body with bungee cords      Yes \_\_\_\_\_ No \_\_\_\_\_

Rear tailboard to extend same distance as outside of dump-valve; middle section to be inset into body additional up to approximately 20"      Yes \_\_\_\_\_ No \_\_\_\_\_

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**16. APPARATUS BODY (Cont'd)**

**SPECIFY**

Rear tailboard to be NFPA/ULC stepping surface approved embossed diamond plate with gap to allow water drainage between tailboard and body Yes\_\_\_\_\_ No\_\_\_\_\_

Rear tailboard to be attached to frame or reinforced to prevent flexing - no exception Yes\_\_\_\_\_ No\_\_\_\_\_

Upper step below the hosebed to be provided, approximately 8" deep and as wide as possible Yes\_\_\_\_\_ No\_\_\_\_\_

Folding steps to be provided to access hosebed, also use top of full-depth rear compartments (bottom) section as solid stepping surface, inside where it becomes half-depth Yes\_\_\_\_\_ No\_\_\_\_\_

Maximum length grab handles to be provided at rear body in all locations on both sides - state quantity and lengths provided Yes\_\_\_\_\_ No\_\_\_\_\_

Full width rub rails provided on the sides of the pump house, body and rear tailboard Yes\_\_\_\_\_ No\_\_\_\_\_

Front and rear mud flaps required Yes\_\_\_\_\_ No\_\_\_\_\_

Front and rear license plate brackets required Yes\_\_\_\_\_ No\_\_\_\_\_

**17. WATER TANK**

Vehicle shall be equipped with a water tank with a capacity of 3,000 US (11,356 litres) min. that is designed to minimize the height of the centre of gravity while maximizing the maneuverability and stability of the vehicle. \_\_\_\_\_ litres

Water tank shall be UPF (or equivalent) minimum ½-inch thick polypropylene and be baffled with transverse and longitudinal partitions. Partition vent and air holes shall permit movement of air and water and provide for maximum water flow Yes\_\_\_\_\_ No\_\_\_\_\_

The water tank shall have a lifetime warranty against defects in materials or workmanship Yes\_\_\_\_\_ No\_\_\_\_\_

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**17. WATER TANK (Cont'd)**

**SPECIFY**

Water tank to be built to all ULC/NFPA current standards Yes\_\_\_\_\_ No\_\_\_\_\_

There shall be one (1) sump in the bottom of the water tank with an anti-swirl plate above the sump to prevent air from being entrained in the water while pumping Yes\_\_\_\_\_ No\_\_\_\_\_

Water tank fill couplings shall be backed with deflectors to break up the stream of water entering the tank, and be able to sustain fill rates up to 1,000 GPM at 100 PSI. Yes\_\_\_\_\_ No\_\_\_\_\_

Water tank shall have a minimum 4-inch overflow/air vent pipe from the fill tower, through the tank, dumps behind the rear axle Yes\_\_\_\_\_ No\_\_\_\_\_

One (1) 38mm tank drain valve shall be provided under the water tank sump, with locking valve handle Yes\_\_\_\_\_ No\_\_\_\_\_

Manhole 20" in diameter with a 10" flip lid cover shall be located at the top of the tank. Lid shall be capable of being unlatched for additional overflow from the tank if the water flow would exceed the internal vent capacity Yes\_\_\_\_\_ No\_\_\_\_\_

A minimum of two (2) 6" diameter internal vent/overflows shall be provided that shall be separate from the manhole and not obstruct the manhole opening. The vent/overflows shall be designed to prevent the creation of a vacuum within the tank while dumping water via the dump valves. The vent/overflows shall discharge excess spillage below the tank by use of internal piping within the tank, and shall dump any excess water behind the rear axles Yes\_\_\_\_\_ No\_\_\_\_\_

Newton valve assembly, including stainless steel manual dump valve with top control, stainless steel swivel, and stainless steel low profile (8x12) 36" telescopic extension chute; dump valve to extend to both sides of the truck unimpeded Yes\_\_\_\_\_ No\_\_\_\_\_

There shall be three (3) Class 1 electronic water tank level gauges to display the water level in increments of 1/8 of a tank on a multi-coloured, high-visibility LED display. One shall be located either side of the body and one shall be located at the rear of the truck Yes\_\_\_\_\_ No\_\_\_\_\_

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**17. WATER TANK (Cont'd)**

**SPECIFY**

4" Firemans Friend intake direct tank fill valve, terminate 4" stortz with 2.5" CSA adapter and cap; rear wall right side as low as possible; drain/bleeder valve included

Yes \_\_\_\_\_ No \_\_\_\_\_

**18. PUMP**

**SPECIFY**

One (1) Hale QMax-XS 1500 USGPM pump engine-driven pump ULC to 5,000 LPM shall be permanently mounted inside the first compartment on the driver's & passenger side of the truck

Yes \_\_\_\_\_ No \_\_\_\_\_

All gauges and controls shall be symmetrically and logically laid out. All names plates for discharges, suctions and gauges shall be coloured. All labels shall be permanent type, securely attached to the panel resistant to all weather conditions

Yes \_\_\_\_\_ No \_\_\_\_\_

Pump panel compartments shall be equipped with Amdor roll-up doors assembled each with LED strip lighting

Yes \_\_\_\_\_ No \_\_\_\_\_

A 6" pump inlet shall be provided on the left side of the pump. The inlet shall protrude from the side of the panel to allow for a 5" TFT external valve to be connected and not protrude past the apparatus body sides behind the roll up door

Yes \_\_\_\_\_ No \_\_\_\_\_

Pumphouse shall be a separate component from the body, with roll-up doors over the left and right side, top of pumphouse painted to match body

Yes \_\_\_\_\_ No \_\_\_\_\_

14 gauge stainless steel left and right panels

Yes \_\_\_\_\_ No \_\_\_\_\_

Aluminum diamond plate floors

Yes \_\_\_\_\_ No \_\_\_\_\_

LED maximum width light along the top of the panels, with switch

Yes \_\_\_\_\_ No \_\_\_\_\_

Left side upper panel to be latched to allow service access

Yes \_\_\_\_\_ No \_\_\_\_\_

Right side upper panel to be large, and latched or removable for service access

Yes \_\_\_\_\_ No \_\_\_\_\_

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**18. PUMP (Cont'd)**

**SPECIFY**

Both sides lower panels to be removable if possible, or include bolted and removable panels if possible Yes\_\_\_\_\_ No\_\_\_\_\_

4.5" master gauges with dual pressure kpa/psi, with blue backlights Yes\_\_\_\_\_ No\_\_\_\_\_

2.5" discharge gauges with blue backlighting, red backlighting for foam capable gauges Yes\_\_\_\_\_ No\_\_\_\_\_

Gauges to include colour trim rings to match handles - colours to match NFPA Yes\_\_\_\_\_ No\_\_\_\_\_

Test ports Yes\_\_\_\_\_ No\_\_\_\_\_

FRC InControl 400 pressure governor Yes\_\_\_\_\_ No\_\_\_\_\_

ITL40M multi-colour water tank level gauge Yes\_\_\_\_\_ No\_\_\_\_\_

Whelen PSTANK2 water tank level gauges, 1x left side high on body, 1x right side high on body, 1x rear high on body Yes\_\_\_\_\_ No\_\_\_\_\_

36,000BTU heater inside pumphouse, aimed at rear of gauges; switch, light and label on panel Yes\_\_\_\_\_ No\_\_\_\_\_

Hale ESP12 primer Yes\_\_\_\_\_ No\_\_\_\_\_

Pump cooler and engine cooler controls Yes\_\_\_\_\_ No\_\_\_\_\_

Master drain valve Yes\_\_\_\_\_ No\_\_\_\_\_

Lift-up individual intake and discharge line drains Yes\_\_\_\_\_ No\_\_\_\_\_

Compartment approx 1' wide, 2' tall, 1' deep (or larger if possible) with aluminum diamond plate door; located below speedlays; includes black Turtle-Tile floor Yes\_\_\_\_\_ No\_\_\_\_\_

1x 6" left side master Task Force Tips PN: AXD8NT-NX-T  
Description: Valve, Ball, Jumbo Low Profile Intake, 5" storz x 6" NH-F-SW hydrant valve with storz cap Yes\_\_\_\_\_ No\_\_\_\_\_

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**18. PUMP (Cont'd)**

**SPECIFY**

- 1x 6" right side master Task Force Tips PN: AXD8NT-NX-T  
Description: Valve, Ball, Jumbo Low Profile Intake, 5" storz x 6" NH-F-SW hydrant valve with storz cap Yes \_\_\_\_\_ No \_\_\_\_\_
- 2.5" left side intake with CSA threads, swift handle control Yes \_\_\_\_\_ No \_\_\_\_\_
- 2x 2.5" left side discharges with CSA threads, push-pull or rack and sector control Yes \_\_\_\_\_ No \_\_\_\_\_
- 1x 2.5" right side discharge with CSA threads, push-pull control Yes \_\_\_\_\_ No \_\_\_\_\_
- 1x 3" right side discharge with 4" pipe and 4" storz, push-pull control Yes \_\_\_\_\_ No \_\_\_\_\_
- 1x 2.5" discharge with 4" storz connection routed straight through the front bumper on the right side, with cap; discharge will be used for tanker operation Yes \_\_\_\_\_ No \_\_\_\_\_
- 1x 2.5" rear discharge with CSA threads, push-pull control Yes \_\_\_\_\_ No \_\_\_\_\_
- 1x 3" deck gun, push-pull controls; capped for future use Yes \_\_\_\_\_ No \_\_\_\_\_
- 1x 3" with 4" pipe, push-pull controls tank to pump line Yes \_\_\_\_\_ No \_\_\_\_\_
- 1x 2.5", push-pull controls tank fill line Yes \_\_\_\_\_ No \_\_\_\_\_
- 2x 1.5"/2" speedlay discharges, push-pull controls (foam capable) Yes \_\_\_\_\_ No \_\_\_\_\_
- Speedlays located forward of the pump panel and enclosed behind the roll-up door; stacked one on top of the other; include Slide-Master full extension roll-out trays (aluminum construction), IMS spring-locks, aluminum trays with handhold, full removable from slide to set on the ground to repack; both trays to slide out to drivers side. Each tray to accommodate 4 lengths of 45mm. hose Yes \_\_\_\_\_ No \_\_\_\_\_
- Mechanical pump seals Yes \_\_\_\_\_ No \_\_\_\_\_
- Victaulic relief valve Yes \_\_\_\_\_ No \_\_\_\_\_
- 3x alloy anodes (1x suction, 2x discharge) Yes \_\_\_\_\_ No \_\_\_\_\_

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**19. STRIPING**

**SPECIFY**

Scotch-lite stripes NFPA compliant matching NFFD colours.

Yes \_\_\_\_\_ No \_\_\_\_\_

Scotch lite stripes shall be provided and confirmed by NFFD. Stripes shall be applied on a minimum of 60% of each side of the unit, 40% on the front of the unit.

Yes \_\_\_\_\_ No \_\_\_\_\_

Scotch-lite colours will be 1" white, 1" space, 4" yellow/gold, 1" space, 1" white. The entire rear of the truck shall be covered with alternating stripes of reflective striping which shall be 6" Scotch-lite and red and yellow in colour

Yes \_\_\_\_\_ No \_\_\_\_\_

**20. EQUIPMENT**

**SPECIFY**

600' (12 Lengths) 44 MM Hose: MTFS 800 1.75" x 50' NPSH

Yes \_\_\_\_\_ No \_\_\_\_\_

1.75" X 50' MTFS 800 FIRE HOSE TREATED - 26017050AT, 5128PS32RI "Yellow"

Yes \_\_\_\_\_ No \_\_\_\_\_

800' (16 Lengths) 65 MM Hose: MTFS 800

Yes \_\_\_\_\_ No \_\_\_\_\_

2.5" x 50' NPSH

Yes \_\_\_\_\_ No \_\_\_\_\_

2.5" X 50' MTFS 800 FIRE HOSE TREATED - 26025050AT, 5140CS46RI "Yellow"

Yes \_\_\_\_\_ No \_\_\_\_\_

800' (8 Lengths) 100 MM: Deluge 4" x 100' Hose w/ Stortz, PAT401002TR "Red"

Yes \_\_\_\_\_ No \_\_\_\_\_

T.B.C. match NFFD specifications

Yes \_\_\_\_\_ No \_\_\_\_\_

2x 1.5" TFT nozzles with 1.5" Tip NPSH F, Metro 1 (570 LPM @ 350kPa) and shut-off Detent valve, Pistol grip, 1.5" NPSH inlet and outlet with smooth bore insert 7/8" factory installed

Yes \_\_\_\_\_ No \_\_\_\_\_

2x 2.5" Vortex with Detent Valve Pistol Grip CSA inlet/1.5" NPSH outlet and 1 1/8" short orifice. (1000 LPM @ 350kPa)

Yes \_\_\_\_\_ No \_\_\_\_\_

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**20. EQUIPMENT (Cont'd)**

**SPECIFY**

2x Streamlight Survivor LED yellow flashlights mounted in cab in front of centre console on the floor 12V wired battery direct

Yes \_\_\_\_\_ No \_\_\_\_\_

3x hydrant and spanner wrench sets, shipped loose

Yes \_\_\_\_\_ No \_\_\_\_\_

Husky ALF-3500 USG portable tank, yellow 22oz Exlon. Custom size TBD

Yes \_\_\_\_\_ No \_\_\_\_\_

Hinged front license plate bracket centered below front bumper

Yes \_\_\_\_\_ No \_\_\_\_\_

2x SCBA brackets, shipped loose; include mounting hardware for PAC boards

Yes \_\_\_\_\_ No \_\_\_\_\_

**21. BUILD INSPECTIONS**

**SPECIFY**

Pre-construction meeting at manufacturer for three (3) FD reps

Yes \_\_\_\_\_ No \_\_\_\_\_

Mid-build inspection for three (3) FD reps

Yes \_\_\_\_\_ No \_\_\_\_\_

Final-inspection for three (3) FD reps

Yes \_\_\_\_\_ No \_\_\_\_\_

Inspections include airfare, hotels, meals

Yes \_\_\_\_\_ No \_\_\_\_\_

**22. WARRANTY**

**SPECIFY**

Chassis warranty - per Kenworth

Yes \_\_\_\_\_ No \_\_\_\_\_

Bumper to Bumper warranty - 3 years

Yes \_\_\_\_\_ No \_\_\_\_\_

Body warranty - 10 year

Yes \_\_\_\_\_ No \_\_\_\_\_

Paint warranty - 10 year

Yes \_\_\_\_\_ No \_\_\_\_\_

Hale pump warranty - standard 5 year parts and 2 year labour

Yes \_\_\_\_\_ No \_\_\_\_\_

Piping warranty - 10 year stainless steel piping

Yes \_\_\_\_\_ No \_\_\_\_\_

Water tank - lifetime warranty

Yes \_\_\_\_\_ No \_\_\_\_\_

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**22. WARRANTY (Cont'd)**

**SPECIFY**

Other items - per manufacturer no items under 1 year

Yes \_\_\_\_\_ No \_\_\_\_\_

Copies of all warranties to be included

Yes \_\_\_\_\_ No \_\_\_\_\_

**23. SERVICE DIAGNOSTICS. MANUALS**

**SPECIFY**

Supply Lap Top Diagnostic Software

Yes \_\_\_\_\_ No \_\_\_\_\_

One (1) complete vehicle electronic diagnostic communication interface with engine service diagnostic program compatible to Microsoft Windows shall be supplied with tender. On-going service updates shall be supplies with package

Yes \_\_\_\_\_ No \_\_\_\_\_

One (1) software program to extract "real time" vehicle information shall be supplied such as Cummins "INSITE" and Cummins "QuickService"

Yes \_\_\_\_\_ No \_\_\_\_\_

One diagnostic (1) software program for cab and chassis multi plex systems

If not included with the above program include (Brake ABS, SRS)

Yes \_\_\_\_\_ No \_\_\_\_\_

One (1) diagnostic software program for Allison transmission

Yes \_\_\_\_\_ No \_\_\_\_\_

SPECIFY: Programs \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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**23. SERVICE DIAGNOSTICS, MANUALS (Cont'd)**

**SPECIFY**

The manufacturer shall supply electronic shop: service, repair and parts manuals for all applicable components for the vehicle supplied. e.g. chassis, body, brake, airbag, engine, transmission and power train components. If the information is available via the internet, it shall be made available on an on-going basis for a minimum of fifteen (15) year: at no cost to the original purchaser. It shall be made available at all City repair facilities. If the information is provided by DVD there shall be two (2) sets provided. Updates and amendments shall be supplied free of charge for a period of not less than fifteen (15) years from the vehicle in service date.

Yes \_\_\_\_\_ No \_\_\_\_\_

Service bulletins shall be provided on an on-going basis for a period of not less than fifteen (15) years to the original owner of the vehicles at no charge.

Yes \_\_\_\_\_ No \_\_\_\_\_

Complete Parts Manuals

Yes \_\_\_\_\_ No \_\_\_\_\_

Complete Service Repair Manuals

Yes \_\_\_\_\_ No \_\_\_\_\_

**24. DELIVERY**

**SPECIFY**

Expected delivery date of completed unit

\_\_\_\_\_, 202\_\_

**25. FILTERS**

**SPECIFY**

Supply all Filters for first service

Yes \_\_\_\_\_ No \_\_\_\_\_

**COMPANY NAME:** \_\_\_\_\_ **SIGNATURE:** \_\_\_\_\_