



CITY OF HOUSTON

Administration and Regulatory Affairs Department
Strategic Purchasing Division

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April 26, 2013

Subject: Letter of Clarification No. 1 to Invitation to Bid No. S38-N24577 Fuel Trailer for the Fleet Management Department

To: All Prospective Bidders:

This letter of Clarification is being issued for the following reasons:

- **To revise the above referenced solicitation as follows:**

- 1) **Replace the solicitation bid document pages 14, 17 and 19 with the attached revised pages 14, 17 and 19, dated April 26, 2013.**

When issued, Letter(s) of Clarification shall automatically become a part of the solicitation documents and shall supersede any previous specification(s) and/or provision(s) in conflict with the Letter(s) of Clarification. All revisions and answers incorporated into the Letter(s) of Clarification are collaboratively from both the Strategic Purchasing Division and the applicable City Department(s). It is the responsibility of the bidder/respondent to ensure that it has obtained all such letter(s). By submitting a bid on this project, bidders/respondents shall be deemed to have received all Letter(s) of Clarification and to have incorporated them into this solicitation and resulting bid.

Furthermore, it is the responsibility of each Contractor to obtain any previous Letter of Clarification associated with this solicitation.

Lena M. Farris

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Partnering to better serve Houston

Council Members: Helena Brown Jerry Davis Ellen R. Cohen Wanda Adams Mike Sullivan Al Hoang Oliver Pennington
Edward Gonzalez James G. Rodriguez Stephen C. Costello Andrew C. Burks, Jr. Melissa Noriega
C.O. "Brad" Bradford Jack Christie Larry Green Mike Laster **Controller: Ronald C. Green**

SECTION B
SPECIFICATIONS
PART II
TECHNICAL SPECIFICATIONS

ITEM NO. 1: FUEL TRAILER

1.0 GENERAL:

1.1 Equipment Description:

- 1.1.1 This specification is for the purchase of a fuel trailer for the City of Houston Fleet Management Department (herein referred to as "FMD"). The Contractor awarded this purchase shall have the experience and technical ability to provide a petroleum trailer as described herein. Referenced Manufacturer/Model is: Heil 9200 19LCG C5, Standard Duty Petroleum Trailer

2.0 VESSEL:

2.1 Shell Material:

- 2.1.1 Aluminum – 5454 alloy. All sizes/gauges are nominal.
2.1.2 Top: 0.182in front section, 0.194in center section, 0.182in rear section
2.1.3 Sides: 0.182in
2.1.4 Bottom: 0.204in

2.2 Shell and Head Finish:

- 2.2.1 Enhanced mill finish bulk trailer sheet

2.3 Shape:

- 2.3.1 Elliptical, 19.59 GPI LCG, Troughs on all compartments

2.4 Specification

- 2.4.1 DOT 406

2.5 Vapor testing:

- 2.5.1 Tested at 5 PSI rated at 3.3 PSI. Vapor tested and certified to EPA Method 24-CA Air Resources Board standards and manholes sealed

2.6 Capacity:

- 2.6.1 Any range 8,000 to 9,500 gallons plus 3% outage. 60 gallons is the minimum outage for any size compartment.

2.7 Compartments:

- 2.7.1 Must be 2 compartments front to rear

2.8 Bulkheads:

- 2.8.1 Aluminum – 5454 alloy. All sizes/gauges are nominal
2.8.2 Front: 0.204in stiffened and shoed
2.8.3 Rear: 0.204in stiffened and shoed
2.8.4 Compartments:
2.8.4.1 0.204 in unstiffened
2.8.4.2 If a unit is currently built, Bulkheads may be single or double
2.8.4.3 If a unit requires to be built, then prefer double bulkheads
2.8.4.4 If a unit has five bulkheads, then double bulkheads placed between compartments #1 and #2 remainder of compartment heads are single bulkheads

SECTION B PART II TECHNICAL SPECIFICATIONS: (Continued)

ITEM NO. 1, FUEL TANKER: (Continued)

2.0 VESSEL (Continued):

- 2.9 Surge Heads:
 - 2.9.1 Aluminum – 5454 alloy. All sizes/gauges are nominal
 - 2.9.2 Over Kingpin: 0.204in stiffened and shoed
 - 2.9.3 Over Rungear: 0.186in stiffened and shoed
 - 2.9.4 Middle of Tank: 0.186 in unstiffened
 - 2.9.5 All surge heads are dished & flanged with (1) 20in man way center, (2) 12in drain holes @ 6 and 12 o'clock and (2) 3in emergency drain holes @3 and 9 o'clock
- 2.10 Flashing:
 - 2.10.1 Full length, double leg extrusions. Dams front and rear with transverse overturn protection rails as required by code
- 2.11 Documentation:
 - 2.11.1 Computer generated calibration charts 1/2in increments
 - 2.11.2 HM-183 documentation w/markings on front head
 - 2.11.3 Vapor test decal with documentation
 - 2.11.4 Unit hydrostatically tested
 - 2.11.5 Chevron Exhibit C and Motiva West test documents included
- 2.12 Operating Temperature
 - 2.12.1 -20 F to 180 F
- 2.13 Lading:
 - 2.13.1 Gasoline, Diesel Fuel or similar

3.0 TANK FITTINGS AND PIPING:

- 3.1 Manholes:
 - 3.1.1 (1) 16in Civacon offset manhole per compartment includes NV3000 PV Valve, 10in aluminum vent and Buna N gaskets. Meets HM 183 and CFR49, 178.364-10 venting requirements
- 3.2 Capacity Indicators:
 - 3.2.1 If ordered, each capacity indicator rod will come with one disc. Additional discs may be ordered
 - 3.2.2 Indicator Rods: None
 - 3.2.3 Additional Discs: None
- 3.3 Internal Ground:
 - 3.3.1 (1) 1/8in stainless steel static ground wire per compartment
- 3.4 Venting:
 - 3.4.1 DOT 406 venting in manhole
- 3.5 Cleanouts/Fill Covers:
 - 3.5.1 None
- 3.6 Vapor Recovery Vent:
 - 3.6.1 (1) Civacon air operated inward opening sequential vent per compartment
 - 3.6.2 Location: Located in each manhole cover
 - 3.6.3 Materials: Aluminum vent with stainless trim & Viton seats

SECTION B PART II TECHNICAL SPECIFICATIONS: (Continued)

ITEM NO. 1, FUEL TANKER: (Continued)

3.0 TANK FITTINGS AND PIPING: (Continued):

- 3.7 Vapor Recovery Connection:
 - 3.7.1 Black nylon vapor recovery nipple connected to flashing rail. A hose connects the vapor recovery vent to the vapor recovery nipple
- 3.8 Vapor Recovery Piping:
 - 3.8.1 4 in aluminum internal vapor line from flashing rail through mid-tank. Line to continue to the following locations
 - 3.8.1.1 (1) curbside outlet 15in to rear of last discharge valve. (4in outlet)
 - 3.8.1.2 (1) curbside outlet to rear of rear head (4in outlet)
- 3.9 Vapor Recovery Fittings:
 - 3.9.1 (1) 4 in dry break adapter (poppeted) and dust cap for all outlets. (Eight bolt TTMA flange mounted)
- 3.10 Additional Venting:
 - 3.10.1 None
- 3.11 Emergency Valve:
 - 3.11.1 (1) Civacom 5x4 MaxAir, internal cylinder, EV per compartment, Aluminum body with Teflon seat, splash shield-vortex breaker over each EV. To simplify piping, a straight valve may be used in place of an elbow style
- 3.12 Operator System:
 - 3.12.1 Civacontrol II mounted in EVO cabinet
- 3.13 Piping/Piping Gasket:
 - 3.13.1 4 in schedule #10 aluminum discharge piping with large radius formed sweeps to curbside of tank, located per API standards.
- 3.14 Discharge Valve:
 - 3.14.1 (1) 4 in Civacon 891A openable adapter per compartment, aluminum handle and Viton seals
- 3.15 Discharge Accessories:
 - 3.15.1 (2) 4 in API to 4in cam style hose adaptors and caps
 - 3.15.2 (3) API dust caps
 - 3.15.3 (5) Ethanol sight glasses on outlets, includes flanges, hardware and Viton gaskets.
- 3.16 Streetside Discharge:
 - 3.16.1 None
- 3.17 Pump Off-Line:
 - 3.17.1 None
- 3.18 Overfill System:
 - 3.18.1 Civacon RomLink system with enhanced controller which includes an electro-pneumatic switch for sequential venting
 - 3.18.2 Monitor located on trailer frame
 - 3.18.3 (1) top probe per compartment located in manhole cover
 - 3.18.4 (1) Optic socket (ref: SJ6W-WOGA) mounted on forward side of large cabinet, not in enclosure. Ground proving device is included with the socket
 - 3.18.5 (1) Thermistor socket (ref: SJ6S) mounted on forward side of large cabinet, not in enclosure. Ground proving device is included with the socket
 - 3.18.6 (1) Scully VIP chip.

SECTION B PART II TECHNICAL SPECIFICATIONS: (Continued)

ITEM NO. 1, FUEL TANKER: (Continued)

3.0 TANK FITTINGS AND PIPING: (Continued):

- 3.19 Brake Interlock:
 - 3.19.1 Safety interference bar with lock down pin handle over discharge valves and vapor outlet(s). Activates (1) brake interlock valve
- 3.20 Overfill Interlock:
 - 3.20.1 Overfill to be interlocked with vapor system. Interlock should be designed so that the overfill monitor will not get a permit light unless the vapor connection at the rear of the trailer is hooked up

4.0 ACCESSORIES:

- 4.1 Ladder:
 - 4.1.1 Front aluminum ladder, center of front head, serrated rungs and platform top step
- 4.2 Walkway:
 - 4.2.1 Adhesive backed, skid-resistant tape between flashing rails. Internal through tank drains near rear
- 4.3 Hose Carriers:
 - 4.3.1 (1) Full length hose trough with reduced center section (replaces curbside front and rear fenders), 4 ½ in H x 22 in W x full length (with reduced center), made of aluminum reinforced for extended wear, located curbside with adjustable heavy duty 1.5in W x .375in thick rubber trough strap w/plated tee handle & hook (Set of 8)
- 4.4 Stick Tube:
 - 4.4.1 (1) 2 in x 21ft schedule #10 aluminum calibration stick tube on outriggers CS. Front and rear of stick tube open with removable pin
- 4.5 Cabinets:
 - 4.5.1 (1) 16 in W x 24 in H x 20in D aluminum, EVO cabinet, single door, stainless steel hinge, mounted curbside in front of piping
 - 4.5.2 (1) 48 in W x 30 in H (27.5 in opening) x 28 in D aluminum, 2-door, D-ring latch and stainless steel hinge, mounted curbside in front of rungear frame
- 4.6 Splash Guard:
 - 4.6.1 Front and rear, anti-sail, anti-spray flaps must meet exceeds DOT requirements.
- 4.7 Fenders:
 - 4.7.1 (1) Single contour front fenders
 - 4.7.2 (2) Single contour rear fenders
- 4.8 Placards/Document Holders:
 - 4.8.1 (4) Label Master #80SM "Slidemaster" single piece placard holders and brackets. Mounted front, rear and one on each side of tank
 - 4.8.1 Betts PSI Certificate Folder
- 4.9 Lights:
 - 4.9.1 12 volt Truck Lite flange mount LED lamp system complying to FMVSS with conspicuity markings each side and rear
 - 4.9.2 Combination mid-tank clearance and turn signals, one each side and one oval third stop light located rear center of trailer
 - 4.9.3 (2) Aluminum light boxes at rear, one each side of tank
 - 4.9.4 (1) Betts LED swivel spotlight mounted on EVO cabinet to illuminate work area
 - 4.9.5 (2) LED dome lights mounted above discharge area, includes switch located in work area

SECTION B PART II TECHNICAL SPECIFICATIONS: (Continued)

ITEM NO. 1, FUEL TANKER: (Continued)

4.0 ACCESSORIES: (Continued):

- 4.10 Wiring:
 - 4.10.1 (1) 7 way ATA (#SAE J560) connector in nose box located at lower streetside front head
- 4.11 Miscellaneous:
 - 4.11.1 Combination cone and bucket holder mounted between EVO cabinet and landing gear

5.0 CHASSIS:

- 5.1 Upper Fifth Wheel:
 - 5.1.1 Hi-tensile steel, bolted and adjustable with 2in forged kingpin
- 5.2 Skid Plate:
 - 5.2.1 Aluminum skid plate
- 5.3 Landing Legs:
 - 5.3.1 Jost model A-HEIL magnum 2-speed, sealed gear box with arctic grade grease, 70,000 lbs. rated lift capacity with 10in x 12in sand shoes and street side crank
- 5.4 Suspension:
 - 5.4.1 Heil's R2R value package includes Hendrickson AANT 23K air ride suspension and brake system, 71.5in track, 5.75in diameter axel, parallel spindle, 23,000 lb. beam rating, 49in spacing with single leveling valve
- 5.5 Suspension Frame:
 - 5.5.1 Aluminum suspension sub frame. Suspension bolted to sub frame with electrolysis barrier. Aluminum DOT compliance bumper per FMVSS223, underride is typically not required per wheels back exemption; however, it will be added if required by suspension location
- 5.6 Brake System:
 - 5.6.1 Aluminum tank air system meeting FMVSS 121 requirements
 - 5.6.2 Haldex TRS 4S/2M ABS with roll Stability
 - 5.6.3 Constant power; auxiliary, blue circuit, center pin of SAE J560 7-way
 - 5.6.4 Haldex Info Center 2 (IC2) for onboard brake system diagnostics mounted streetside forward of tandem
 - 5.6.5 Configuration; 16.5in x 7in (quick change) S-cam type drum brake system
 - 5.6.6 Philips "Quick Release" gladhand on service line
- 5.7 Brake Chamber:
 - 5.7.1 OEM type 30-30 parking-emergency spring brake
 - 5.7.2 Heil's R2R package includes Haldex Life Seal, long stroke, brake chambers
- 5.8 Brake Lining:
 - 5.8.1 OEM brake Lining
 - 5.8.2 Premium ABEX 30/30-197 with 5/8in thick extended service brake shoes
- 5.9 Slack Adjuster:
 - 5.9.1 OEM slack adjuster
 - 5.9.2 Haldex 5.5in automatic slack adjusters with grease fittings

SECTION B PART II TECHNICAL SPECIFICATIONS: (Continued)

ITEM NO. 1, FUEL TANKER: (Continued)

5.0 ACCESSORIES: (Continued):

- 5.10 Axels:
 - 5.10.1 (2) Integral with air ride
- 5.11 Oil Seals:
 - 5.11.1 Preset bearings with premium oil seals
- 5.12 Paint:
 - 5.12.1 DuPont Imron 5000 series silver metallic (N0217) paint on steel parts

6.0 HUBS AND DRUMS:

- 6.1 Hubs:
 - 6.1.1 (4) ConMet aluminum preset 10 Stud, hub pilot (single nut mount) hub for outboard drum
- 6.2 Drums:
 - 6.2.1 (4) Centrifuse – outboard mount brake drums (16.5in x 7in)

7.0 WHEELS:

- 7.1 (8) 10 Stud aluminum, machine finish, LvL One 22.5in x 8.25in (Hub Pilot-single nut mount wheels)

8.0 TIRES:

- 8.1 (8) Bridgestone R-197 Ecopia, 11R22.5 14-Ply

9.0 WARRANTY:

- 9.1 Four year warranty – one year bumper to bumper coverage with some areas (e.g., barrel and frame) being extended on a pro-rated basis out as much as 4 years
- 9.2 Hendrickson's five-year wheel end warranty and factory supplied chambers, slacks, preset hubs and drums
- 9.3 Jost's 5 year maintenance free landing gear warranty
- 9.4 Civacon's 3 year System3 component warranty
- 9.5 DuPont's prorated 3 year warranty on steel parts and prorated 4 year warranty on aluminum parts

10.0 LITERATURE:

- 10.1 To provide three (3) copies of trailer CD, one (1) to go with trailer and two (2) to the awarded vendor

11.0 DELIVERY:

- 11.1 Units (s) as specified above with delivery ticket and other required documents shall be delivered Prepaid F.O.B. Destination to the address shown on the City of Houston Purchase Order. It is required that delivery be completed as expeditiously as possible, but no later than two hundred and ten (210) calendar days after receipt of the Purchase Order.