

Exhibit A



UNITED PLASTIC
FABRICATING, INC.

WILL WARNOCK
Sales Engineer
(800) 638-8265 ext 242

9 January 2013

Fort Bend County Purchasing Department
Travis Annex
301 Jackson, Suite 201
Richmond, TX 77469
re: R13-026 Foam Trailer bid

Dear Bid Opener,

United Plastic Fabricating Inc. is pleased to provide you a quote on your RFP-13-026 foam trailer RFP. UPF can provide the foam trailers built and equipped as specified with no exceptions and have them delivered by June 30 2013.

UPF has extensive experience with foam trailers and is considered a leader in their manufacture and design. While many firms have tried to duplicate our design our product proves its value whenever it is used at the scene of an emergency. I have attached sales brochures that showcase our foam trailers and a customer list showing over 250 foam trailer in use around the world. We have recently delivered trailers similar to your RFP trailer in the following locations: 21 to the State of Massachusetts, 8 to the State of Connecticut and 4 to Columbus OH.

The cost of two foam trailers delivered and equipped as per your specifications is \$166,766.00.

Please feel free to contact me if you have any questions.

Sincerely,

Will Warnock
Foam Trailer Sales
United Plastic Fabricating Inc.
165 Flagship Drive
North Andover, MA 01845
888-863-0242
603-396-3787 cell
wwarnock@unitedplastic.com

*United Plastic Fabricating, Inc. • 165 Flagship Drive, No. Andover, Massachusetts 01845
fax: (800) 966-4520
e-mail: wwarnock@unitedplastic.com
web: www.unitedplastic.com*

1.0 INTENT:

It is the intent of this request for proposal (RFP) to contract with one (1) vendor to provide two (2) mobile 500 gallon foam trailers with rear mounted attack manifold for the Fort Bend County (FBC) Office of Emergency Management (OEM), as specified herein.

2.0 PROPOSAL SUBMISSION:

2.1 Questions:

Questions concerning this RFP must be submitted in writing to Ms Debbie Kaminski, CPPB, County Assistant Purchasing Agent, 301 Jackson, Suite 201, Richmond, Texas 77469, [kaminskid@co.fort-bend.tx.us](mailto:kaminskd@co.fort-bend.tx.us). Responses to questions will be issued in writing only, verbal questions and responses will not be considered. Deadline for submission of questions and/or clarification is **Thursday, February 14, 2013 at 3:00 p.m. (CST)**. Requests received after the deadline will not be responded to due to the time constraints of this Proposal process.

2.2 When submitting a proposal in response to this request the following are required:

- 2.2.1 One (1) original, four (4) copies and one (1) electronic response on CD or flash drive. CD or flash drive must contain only one (1) file in PDF format and must match written response identically. Failure to provide proper CD or flash drive is cause for disqualification.**
- 2.2.2 Insure that this RFP is included in your proposal and that all the information requested on the cover of this RFP is completed.**
- 2.2.3 Provide a title page showing the RFP subject, name of proposer, address, telephone number, fax number and email address. The title page must be signed by an officer of the firm.**
- 2.2.4 Provide all required elements as stated.**
- 2.2.5 Provide detailed pricing.**
- 2.2.6 Provide completed W9, Tax Residence Certification and proof of insurance.**

2.3 Proprietary Information:

If a proposal includes any proprietary data or information that the respondent does not want disclosed to the public, such data or information must be clearly identified on every page on which it is found. Data or information so identified will be used by Fort Bend County officials and representatives solely for the purpose of evaluating proposals and conducting contract negotiations.

2.4 Cost of Proposal Preparation:

The cost of preparing a response to this RFP is not reimbursable to respondent or selected provider.

2.5 Modification or Withdrawal of Proposals:

Any proposal may be withdrawn or modified by written request of the respondent prior to the deadline for submission. Modifications received after the submission deadline will not be considered. No proposal may be withdrawn for a period of 60 calendar days after opening without permission of Fort Bend County. Respondents will be accorded fair and equal treatment with respect to any opportunity for discussion and revision. Revisions will be permitted after submission and before final contract award for the purpose of obtaining the best and final offer.

2.6 Preparation of Proposal:

Proposals must be in correct format and complete. Respondents are expected to address all items in as much detail as necessary for Fort Bend County representatives to make a fair evaluation of the company and the proposal.

2.7 Confidentiality of Proposals:

Proposals will be opened on the date specified on the cover page and kept secret during the process of negotiations. Only the names of the respondents will be made public at time of opening. All proposals that have been submitted shall be open for public inspection only after final contract award, subject to the requirements of the Public Information Act.

2.8 Contract Award:

Fort Bend County Commissioners Court will award the contract to the responsible company(s) who has been determined to be the best evaluated offer resulting from negotiations. Fort Bend County reserves the right to reject any or all proposals and is not obligated to award a contract pursuant to this request for proposals. Final contract may be awarded to one (1) firm or multiple firms.

2.9 Exceptions RFP:

Any and all exceptions, conditions or qualifications to the provisions contained herein must be clearly identified as such together with reasons for taking exception, and inserted in the proposal along with associated costs.

3.0 INSURANCE:

- 3.1 All respondents must submit, with RFP, a certificate of insurance indicating coverage in the amounts stated below. In lieu of submitting a certificate of insurance, respondents may submit, with RFP, a notarized statement from an Insurance company, authorized to conduct business in the State of Texas, and acceptable to Fort Bend County, guaranteeing the issuance of an insurance policy, with the coverage stated below, to the contractor named therein, if successful, upon award of this Contract. Failure to provide insurance certificate or notarized statement will result in disqualification of submittal.
- 3.2 The certificates of insurance to be satisfactory to Fort Bend County, naming the Contractor and its employees as insured:
 - 3.2.1 Workers Compensation in accordance with the laws of the State of Texas. Substitutes to genuine Workers' Compensation Insurance will not be allowed.
 - 3.2.2 Employers' Liability insurance with limits of not less than \$1,000,000 per injury by accident, \$1,000,000 per injury by disease, and \$1,000,000 per bodily injury by disease.
 - 3.2.3 Commercial general liability insurance with a limit of not less than \$1,000,000 each occurrence and \$2,000,000 in the annual aggregate. Policy shall cover liability for bodily injury, personal injury, and property damage and products/completed operations arising out of the business operations of the policyholder.
 - 3.2.4 Business Automobile Liability coverage applying to owned, non-owned and hired automobiles with limits not less than \$1,000,000 each occurrence combined single limit for Bodily Injury and Property Damage combined.
- 3.3 County and the members of Commissioners Court shall be named as additional insured to all required coverage except for Workers' Compensation and Professional Liability (if required). All Liability policies written on behalf of Contractor shall contain a waiver of subrogation in favor of County and members of Commissioners Court.
- 3.4 If required coverage is written on a claims-made basis, Contractor warrants that any retroactive date applicable to coverage under the policy precedes the effective date of the Contract and that continuous coverage will be maintained or an extended discovery period will be exercised for a period of 2 years beginning from the time the work under this Contract is completed.

- 3.5 Contractor shall not commence any portion of the work under this Contract until it has obtained the insurance required herein and certificates of such insurance have been filed with and approved by Fort Bend County.
- 3.6 No cancellation of or changes to the certificates, or the policies, may be made without sixty (60) days prior, written notification to Fort Bend County.
- 3.7 Approval of the insurance by Fort Bend County shall not relieve or decrease the liability of the Contractor.

4.0 INDEMNIFICATION:

RESPONDENT SHALL SAVE HARMLESS COUNTY FROM AND AGAINST ALL CLAIMS, LIABILITY, AND EXPENSES, INCLUDING REASONABLE ATTORNEYS FEES, ARISING FROM ACTIVITIES OF RESPONDENT, ITS AGENTS, SERVANTS OR EMPLOYEES, PERFORMED UNDER THIS AGREEMENT THAT RESULT FROM THE NEGLIGENT ACT, ERROR, OR OMISSION OF RESPONDENT OR ANY OF RESPONDENT'S AGENTS, SERVANTS OR EMPLOYEES.

- 4.1 Respondent shall timely report all such matters to Fort Bend County and shall, upon the receipt of any such claim, demand, suit, action, proceeding, lien or judgment, not later than the fifteenth day of each month; provide Fort Bend County with a written report on each such matter, setting forth the status of each matter, the schedule or planned proceedings with respect to each matter and the cooperation or assistance, if any, of Fort Bend County required by Respondent in the defense of each matter.
- 4.2 Respondent's duty to defend, indemnify and hold Fort Bend County harmless shall be absolute. It shall not abate or end by reason of the expiration or termination of any contract unless otherwise agreed by Fort Bend County in writing. The provisions of this section shall survive the termination of the contract and shall remain in full force and effect with respect to all such matters no matter when they arise.
- 4.3 In the event of any dispute between the parties as to whether a claim, demand, suit, action, proceeding, lien or judgment appears to have been caused by or appears to have arisen out of or in connection with acts or omissions of Respondent, Respondent shall never-the-less fully defend such claim, demand, suit, action, proceeding, lien or judgment until and unless there is a determination by a court of competent jurisdiction that the acts and omissions of Respondent are not at issue in the matter.
- 4.4 Respondent's indemnification shall cover, and Respondent agrees to indemnify Fort Bend County, in the event Fort Bend County is found to have been negligent for having selected Respondent to perform the work described in this request.

- 4.5 The provision by Respondent of insurance shall not limit the liability of Respondent under an agreement.
- 4.6 Respondent shall cause all trade contractors and any other contractor who may have a contract to perform construction or installation work in the area where work will be performed under this request, to agree to indemnify Fort Bend County and to hold it harmless from all claims for bodily injury and property damage that arise may from said Respondent's operations. Such provisions shall be in form satisfactory to Fort Bend County.
- 4.7 Loss Deduction Clause - Fort Bend County shall be exempt from, and in no way liable for, any sums of money which may represent a deductible in any insurance policy. The payment of deductibles shall be the sole responsibility of Respondent and/or trade contractor providing such insurance.

5.0 SPECIFICATIONS:

- 5.1 500 gallon mobile foam trailers, AR-AFFF or equal, with rear mounted attack manifold, rev 712 for use as a firefighting unit.
- 5.2 The trailers are intended to be towed by a support vehicle to the scene of a fire and/or various types of spills for the purpose of re-supplying foam concentrate to fire apparatus and/or proportioning foam for fire attack. A one-person operation shall allow for the proportioning and re-supplying of foam concentrate to the operating vehicles at the scene of major incidents.
- 5.3 Product shall be completely brand new and of the best quality materials currently used in commercial practice for emergency vehicle fabrication. Materials that deteriorate when exposed to sunlight; extreme weather or operational conditions shall not be used or shall have a means of protection against such conditions that will not prevent compliance with performance standards. Protective coatings that chip, crack, or scale with age or extremes of climatic conditions or on exposure to heat or cold shall not be used.
- 5.4 Vendor shall demonstrate that the product offered for these trailers are a proven type foam re-supply trailer of a type that has been manufactured for (and successfully used by) other emergency services. The vendor shall be certified to the ISO 9000:2001 standard. A user list of at least 75 trailers in field use must be submitted. The trailers must be road tested prior to delivery.
- 5.5 Trailers offered shall comply with all applicable and Motor Carrier Safety Regulations concerning size, weight, brakes, lights, load rating and balance. Conformance must meet FMVSS # 108, FMVSS #115, FMVSS # 120, and FMVSS # 125 as stated in FCR title 49. The trailer shall comply with the NFPA 1901 chapter 26 Standard on fire department trailers.

- 5.6 Weight shall be distributed equally as practical over the axles and tires of the fully loaded vehicle. Fully loaded units that are unbalanced during stand-alone or while being towed will not be accepted. Tires shall equal axle or exceed weight rating.
- 5.7 The use of proven nonmetallic materials in lieu of metal is permitted if that use contributes to reduced weight, lower cost or less maintenance and there is no degradation in performance or increase in long term operations and maintenance costs.
- 5.8 Trailer must be constructed with lowest possible center of gravity when fully loaded with foam concentrate, tools and the appliances specified herein. Performance must be commensurate with smooth and safe highway and moderate off highway operation. Proper weight and balance configuration is essential.

Trailer Unit:

- 5.9 Size: Not to exceed (approx.) 248" long, 96" wide, 80" high when measured from surface.
- 5.10 Axles: Tandem 5,200 pound axles are to be used on the trailer. Each wheel is to have an electric brake.
- 5.11 Tires and Wheels: Minimum 8 14.5 LT 12 ply tires with a capacity of 2,790 lbs. each at 100 PSI. Wheels shall be 14.5 X 6 rated at 2,790 lbs. each.
- 5.12 Tow Hook/Brake Actuator: 3" adjustable pintle type lynette ring. Safety chains rated 10,000 lbs. per pair shall be provided at the front of the trailer. A breakaway line must be provided to activate brakes should the trailer become uncoupled from the tow vehicle.
- 5.13 Stands: Three heavy-duty pound crank down detachable type stands shall be mounted to provide support during stand alone trailer operations. A 5000 lb stand on the front and two 2000 lb stands on the rear.
- 5.14 Wheel Chock: A set of wheel chocks to be provided for stand alone firefighting operations. They shall be mounted to the angled surfaces of the street side fender.
- 5.15 Lights: Dual 3" x 7 LED red flashing warning lights shall be mounted on the rear and both sides of the trailer. Two LED white platform lights with a single switch shall be mounted in the front and rear work area. A license plate bracket light and D.O.T. LED standard brake lights and directional signals shall be provided.
- 5.16 Wiring: Heavy duty all weather type insulated wire sized properly for all applied loads and protected from damage by foam concentrate overflow and normal use. All wiring shall originate from front trailer plug. An electrical schematic is to be provided for wiring tow vehicle.

5.17 Work Platforms: There shall be one aluminum diamond plate platform on front A-frame of trailer (aft of hitch) and one aluminum plate platform shall be provided at the rear of the trailer. A side step shall be provided ahead of and behind the fenders on each side.

5.18 Gross Vehicular Weight (GVW): Shall not exceed 10,000 pounds.

Foam Tank:

5.19 Size: The 500 gallon PT II E propylene foam tank shall be manufactured by United Plastic Fabricating, Low center of gravity type with adequate baffles.

5.20 Gauge: Clear visual liquid level site gauge convenient to operator's area at the front of the trailer.

5.21 Fill Tower: Two can Poly-tub with hinged liquid tight cover that will prevent foam concentrate from splashing out of the fill tank during movement and provides for reverse filling to control agitation.

5.22 Vents: Two 2" pressure/vacuum vents shall be installed into the foam fill tower.

5.23 Drain: A 1.5" NSTFS valved drain shall be plumbed off the sump. A cap and chain shall be provided. Outlet shall terminate ahead of the wheels.

Fire Attack Equipment:

5.24 Attack Hosebeds: Provide two (2) crosslay hosebeds approximately 16" W x 10" H x 67" L across the tank. The crosslay shall be capable of containing 200' 1.75" DJ fire hose. The crosslays shall have a valved 0-1-3-6% 125 gpm eductor. The eductors shall be plumbed off a dual inlet 5" manifold with a 2" bronze body ¼ turn valve and shall terminate in the hosebed with a 90 degree continuous swivel with NSTM hose threads and an NPT adapter. Discharge valves shall be color coded to the hose.

5.25 Provide a crosslay hosebed approximately 18"W x 10"H x 64"L across the tank behind the 1.75" crosslay hosebeds. The hosebed shall be capable of containing at least 300' of 2.5" DJ firehose. The crosslay shall have a valved 0-1-3-6% 250 gpm eductor with a 2.5" full flow valve and shall terminate in the hosebed with a NSTM 2.5" chicsan swivel. Discharge valves shall be color coded to the hose.

5.26 Foam Monitor: Provide a pre-piped demountable 1-3% 500-gpm self-educing foam monitor with TFT matching ground base. The ground base shall have a 5" storz inlet. The monitor shall be a light weight type with truck mount. Monitor to be plumbed off 6" manifold with a 3" riser with a bronze body ¼ turn valve. The ground base shall be mounted to the fender of the trailer with the appropriate brackets.

- 5.27 Remote Proportioning: A matched 1-3% preplumbed matched jet-ratio shall be mount piped off the 6" water manifold with a 1.5" valve, a 2" 0-300 psi gauge and a chrome cap. The jet-ratio controller shall have a 1.5" NSTM discharge.
- 5.28 6" Manifold: The 6" stainless steel manifold shall be at the rear of the trailer. It shall terminate in 5" chrome NST adapters. The manifold shall be equipped with a 2.5" gated Siamese with chrome plugs and a 5" gated storz inlet valve with cap. The manifold shall have a 4" liquid filled pressure gauge and a .75" brass drain. The manifold shall be mounted on the end of the trailer.
- 5.29 Hosebed covers: All hosebeds will have a snap on black vinyl hosebed cover.
- 5.30 Compartments: Top Storage Area: A 14" x 16" x 59" covered storage compartment for storage of the suction hoses and loose equipment shall be provided on top of the tank. Compartment walls shall be integrally welded to foam tank. A gasketed hinged aluminum diamond plate cover with a latch shall be provided.

Pump:

- 5.31 Pump: One (1) 50 GPM gas powered rotary gear pump set up for concentrate transfer is to be provided. Pump is to have electric start, integral fuel tank, battery, and recoil start back up. Pump is to be driven by gasoline engine. Pump battery to have weatherproof box with enclosed battery conditioner and weatherproof shoreline plug receptacle. An adjustable relief valve shall be provided. The return line shall be piped integrally to the intake side of the pump.
- 5.32 Pump Connections and Piping: The permanently mounted pump shall be capable of pumping foam concentrate from the tank or from 55 gallon drums and supplying it to a remote location such as other foam consuming apparatus. NOTE: All pipes shall feature easy maintenance and/or replacement using victaulic couplings. All concentrate piping shall be brass. All valves to be 2" full flow. All piping will be labeled with color coded arrows showing the direction of flow in the pipe.
 - 5.32.1 Provide one (1) 2" suction pipe from the tank to the pump with a ¼ turn tank isolation valve mounted at the tank.
 - 5.32.2 Provide two (2) 1.5" NST inlets on main tank to pump (suction) line in order to use Aux. Pick up tube device through the pump. Also, provide plug and chain for the 1.5" inlets.
 - 5.32.3 Provide (2) 2" piped outlets from pump, one shall be plumbed to a valved 1.5" outlet and shall be furnished with a chrome cap. The second one is to serve as a tank fill line from the pump. The pipe is to extend into and towards the tank bottom to limit foam agitation while filling. Each discharge shall have a 2" quarter turn on/off valve capable of convenient and rapid activation from the operator's area

5.32.4 The third discharge shall be plumbed through a chicsan swivel to a 100' capacity 1.75" preconnected hosebed to permit the rapid transfer of foam concentrate to other tanks or apparatus. The discharge shall have a 1.5" quarter turn on/off valve capable of convenient and rapid activation from the operator's platform area.

5.33 Accessories: Provide the following accessories for use with the foam resupply trailer.

5.33.1 Two each approximately 120" inch long PVC 2" cam-lok" suction lines with a 40" pick up tube for pumping concentrate from 55 gallon barrels shall be provided. A cam-lok to 1.5NSTM" adapter shall be provided.

5.33.2 One (1) each PVC 1.5 foam fill tube approximately 48" long with shut off valve. Inlet connection on fill tubes to be 1 1/2" NSTF swivel type.

5.33.3 Provide technical manuals, parts manuals, and repair manual for all installed equipment and accessories.

Treating and Painting:

5.34 Painting and Lettering: A proven paint system shall be used to prime and paint both the foam re-supply trailer and the tank with appropriate color paint and shall be of an automotive quality finish. Striping and lettering shall match the end user's specification. A 6" chevron pattern of red and yellow strips shall be provided on the rear of the trailer. The trailer shall have a label stating "purchased with a U.S. Homeland Security Grant". The trailer shall be white and/or red as specified.

5.35 Labels: All devices will have fixed weatherproof labels or tags. Instructional plates will be mounted directly adjacent to operational controls.

Warranties and Inspection:

5.36 Provide a two (2) year warranty on the trailer and parts. Provide a lifetime warranty on the foam tank.

5.37 The contractor shall warranty the foam resupply trailer to be free from defects in material and workmanship under normal use and service. The obligation under this warranty is equipment or trade accessories (except tires, storage batteries, electric lamps and other devices subject to normal deterioration) supplied that should fail due to poor workmanship.

5.38 All additional equipment shall be covered by the individual manufacturer's warranty.

5.39 Inspection Visits: Up to three inspection trips to the manufacturer's facility shall be permitted. Expenses shall be the responsibility of the end user.

Operational Accessories:

- 5.40 500 gallons of 1 x 3 AR-AFFF Class B UL listed foam concentrate
- 5.41 Two (2) each TFT ME1-VPGI pistol grip 1.5" nozzles with TFT FJ-H detachable foam tube. The nozzles are to be rated at 125 gpm at 75 psi.
- 5.42 One (1) each TFT ME-2-VPGI pistol grip 2.5" nozzle with TFT FJ-H detachable foam tube.
- 5.43 500' of 1.75" double jacketed firehose coupled in 50' lengths with 1.5" NST couplings.
- 5.44 300' of 2.5" double jacketed firehose coupled in 50' lengths with 2.5" NST couplings.
- 5.45 Generator package - The trailer shall have a mounted gas powered generator with a recoil start 2000 watt Honda generator with a weather proof cover prewired to two individually switched telescoping 500 watt floodlights.
- 5.46 Receiver Mount Combination Ball Hitch with integral receiver shank. The hitch shall fit 2" square receivers, 2-5/16" ball. The capacity for the Pintle Hook is 12,000 lbs. the capacity for Ball Hitch is 7,000 lbs.
- 5.47 Auxiliary 6' pick tubes shall be provided for all eductors to permit their use with external foam concentrate supplies.
- 5.48 An auxiliary pick tubes shall be provided for the jet-ratio controller or the monitor nozzle to permit their use with external training foam concentrate supplies.
- 5.49 Four (4) LDH spanner wrenches and their holder shall be mounted on the trailer.
- 5.50 A garden hose to .5" flush adapter and two foam can wrenches shall be included in the loose equipment.

Training:

- 5.51 The vendor shall support the development of a training program for use by the end user departments.

6.0 PRICING:

Provide detailed pricing.

7.0 DELIVERY:

Trailers must be built and delivered to Fort Bend County Office of Emergency Management no later than June 30, 2013.

8.0 EVALUATION FACTORS:

Contract award will be made to the responsible contractor, whose proposal is determined to be the best evaluated offer resulting from negotiations, taking into consideration the relative importance of price and other evaluation factors set forth in this RFP and in accordance with the requirements of the Texas Local Government Code.

- 50% Understanding of Scope of Work: Parties demonstrate their ability to meet the required specifications. In addition, describe how the products requested in this instrument will be provided and how they will be supported.
- 20% Firm Experience of similar complexity: List only contracts held within the last 3 years. Provide the client name, briefly describe the project and provide a contact person and phone number.
- 20% Price.
- 10% Request for Proposals Document: Well organized and well written proposals, responding coherently to this Request for Proposals will be given preference. Proposal must clearly identify contact person responsible for the submission, giving individual's name and employer, address, and telephone number.

9.0 EVALUATION PROCESS:

- 9.1 After the proposals are received, the evaluation team shall evaluate each proposal that was submitted on time, and the evaluation shall be based on the criteria listed in the proposal. Selection committee members will conduct a quantitative evaluation according to a numerical ranking system and a qualitative evaluation for over all proposal content and its conformance to requirements. The entire evaluation committee will then meet to discuss the strong and weak points of each proposal to assure that it has been evaluated fairly, impartially and comprehensively. Following this initial evaluation, the evaluation team may recommend contract award without further discussion with proposers, or the firms submitting the top rated proposals may be asked to make an oral presentation to the evaluation team for the propose of further clarification and evaluation of the proposals.

500 Gallon Attack AR-AFFF Foam Trailer (with rear mounted attack manifold, rev 712)

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SPECIFICATIONS

Attack Foam Trailer

The following specifications are for a mobile foam trailer of 500-gallon capacity with various options and accessories for use as a firefighting unit.

The trailer is intended to be towed by a support vehicle to the scene of a fire and/or various types of spills for the purpose of resupplying foam concentrate to fire apparatus and/or proportioning foam for fire attack. A one-person operation shall allow for the proportioning and resupplying of foam concentrate to the operating vehicles at the scene of major incidents.

Product shall be completely brand new and of the best quality materials currently used in commercial practice for emergency vehicle fabrication. Materials that deteriorate when exposed to sunlight; extreme weather or operational conditions shall not be used or shall have a means of protection against such conditions that will not prevent compliance with performance standards. Protective coatings that chip, crack, or scale with age or extremes of climatic conditions or on exposure to heat or cold shall not be used.

The Vendor shall demonstrate that the product offered for this trailer is a proven type foam resupply trailer of a type that has been manufactured for (and successfully used by) other emergency services. The vendor shall be certified to the ISO 9000:2001 standard. A user list of at least 75 trailers in field use must be submitted. Manufacturer must be within 100 miles of the District to provide for inspection and service. The trailer must be road tested prior to delivery.

The foam resupply trailer offered shall comply with all applicable and Motor Carrier Safety Regulations concerning size, weight, brakes, lights, load rating and balance. Conformance must meet FMVSS # 108, FMVSS #115, FMVSS # 120, and FMVSS # 125 as stated in FCR title 49. The trailer shall comply with the NFPA 1901 chapter 26 Standard on fire department trailers.

Weight shall be distributed equally as practical over the axles and tires of the fully loaded vehicle. Fully loaded units that are unbalanced during stand-alone or while being towed will not be accepted. Tires shall equal axle or exceed weight rating.

The use of proven nonmetallic materials in lieu of metal is permitted if that use contributes to reduced weight, lower cost or less maintenance and there is no degradation in performance or increase in long term operations and maintenance costs.

The foam resupply trailer must be constructed with lowest possible center of gravity when fully loaded with foam concentrate, tools and the appliances specified herein. Performance must be commensurate with smooth and safe highway and moderate off highway operation. Proper weight and balance configuration is essential.

I. TRAILER, TANK, AND COMPARTMENTS

A. TRAILER UNIT

1. Size:

Not to exceed (approx.) 248" long, 96" wide, 80" high when measured from surface.

2. Axles:

Tandem 5,200 pound axles are to be used on the trailer. Each wheel is to have an electric brake.

3. Tires and Wheels:

Minimum 8 14.5 LT 12 ply tires with a capacity of 2,790 lbs. each at 100 PSI. Wheels shall be 14.5 X 6 rated at 2,790 lbs. each.

4. Tow Hook/Brake Actuator:

3" adjustable pintle type lynette ring. Safety chains rated 10,000 lbs. per pair shall be provided at the front of the trailer. A breakaway line must be provided to activate brakes should the trailer become uncoupled from the tow vehicle.

5. Stands:

Three heavy-duty pound crank down detachable type stands shall be mounted to provide support during stand alone trailer operations. A 5000 lb stand on the front and two 2000 lb stands on the rear.

6. Wheel Chock:

A set of wheel chocks to be provided for stand alone firefighting operations. They shall be mounted to the angled surfaces of the street side fender.

7. Lights:

Dual 3" x 7 LED red flashing warning lights shall be mounted on the rear and both sides of the trailer. Two LED white platform lights with a single switch shall be mounted in the front and rear work area. A license plate bracket light and D.O.T. LED standard brake lights and directional signals shall be provided.

8. Wiring:

Heavy duty all weather type insulated wire sized properly for all applied loads and protected from damage by foam concentrate overflow and normal use. All wiring shall originate from front trailer plug. An electrical schematic is to be provided for wiring tow vehicle.

9. Work Platforms:

There shall be one aluminum diamond plate platform on front A-frame of trailer (aft of hitch) and one aluminum plate platform shall be provided at the rear of the trailer. A side step shall be provided ahead of and behind the fenders on each side.

10. Gross Vehicular Weight (GVW):

Shall not exceed 10,000 pounds.

B. FOAM TANK:

1. Size:

The 500 gallon PT II E propylene foam tank shall be manufactured by United Plastic Fabricating. Low center of gravity type with adequate baffles.

2. Gauge:

Clear visual liquid level site gauge convenient to operator's area at the front of the trailer.

3. Fill Tower:

Two can Poly-tub with hinged liquid tight cover that will prevent foam concentrate from splashing out of the fill tank during movement and provides for reverse filling to control agitation.

4. Vents:

Two 2" pressure/vacuum vents shall be installed into the foam fill tower.

5. Drain:

A 1.5" NSTFS valved drain shall be plumbed off the sump. A cap and chain shall be provided. Outlet shall terminate ahead of the wheels.

C. FIRE ATTACK EQUIPMENT

1. Attack Hosebeds:

Provide two (2) crosslay hosebeds approximately 16" W x 10" H x 67" L across the tank. The crosslay shall be capable of containing 200' 1.75" DJ fire hose. The crosslays shall have a valved 0-1-3-6% 125 gpm eductor. The eductors shall be plumbed off a dual inlet 5" manifold with a 2" bronze body ¼ turn valve and shall terminate in the hosebed with a 90 degree continuous swivel with NSTM hose threads and an NPT adapter. Discharge valves shall be color coded to the hose.

Provide a crosslay hosebed approximately 18"W x 10"H x 64"L across the tank behind the 1.75" crosslay hosebeds. The hosebed shall be capable of containing at least 300' of 2.5" DJ firehose. The crosslay shall have a valved 0-1-3-6% 250 gpm eductor with a 2.5" full flow valve and shall terminate in the hosebed with a NSTM 2.5" chicsan swivel. Discharge valves shall be color coded to the hose.

2. Foam Monitor:

Provide a pre-piped demountable 1-3% 500-gpm self-educting foam monitor with TFT matching ground base. The ground base shall have a 5" storz inlet. The monitor shall be a light weight type with truck mount. Monitor to be plumbed off 6" manifold with a 3" riser with a bronze body ¼ turn valve. The ground base shall be mounted to the fender of the trailer with the appropriate brackets.

3. Remote Proportioning:

A matched 1-3% preplumbed matched jet-ratio shall be mount piped off the 6" water manifold with a 1.5" valve, a 2" 0-300 psi gauge and a chrome cap. The jet-ratio controller shall have a 1.5" NSTM discharge.

4. 6" Manifold:

The 6" stainless steel manifold shall be at the rear of the trailer. It shall terminate in 5" chrome NST adapters. The manifold shall be equipped with a 2.5" gated siamese with chrome plugs and a 5" gated storz inlet valve with cap. The manifold shall have a 4" liquid filled pressure gauge and a .75" brass drain. The manifold shall be mounted on the end of the trailer.

5. Hosebed covers:

All hosebeds will have a snap on black vinyl hosebed cover.

D. COMPARTMENTS

1. Top Storage Area:

A 14" x 16" x 59" covered storage compartment for storage of the suction hoses and loose equipment shall be provided on top of the tank. Compartment walls shall be integrally welded to foam tank. A gasketed hinged aluminum diamond plate cover with a latch shall be provided.

II. PUMP

A. Pump

One (1) 50 GPM gas powered rotary gear pump set up for concentrate transfer is to be provided. Pump is to have electric start, integral fuel tank, battery, and recoil start back up. Pump is to be driven by gasoline engine. Pump battery to have weatherproof box with enclosed battery conditioner and weatherproof shoreline plug receptacle. An adjustable relief valve shall be provided. The return line shall be piped integrally to the intake side of the pump.

B. Pump Connections and Piping

The permanently mounted pump shall be capable of pumping foam concentrate from the tank or from 55 gallon drums and supplying it to a remote location such as other foam consuming apparatus.

NOTE: All pipes shall feature easy maintenance and/or replacement using victaulic couplings. All concentrate piping shall be brass. All valves to be 2" full flow. All piping will be labeled with color coded arrows showing the direction of flow in the pipe.

1. Provide one (1) 2" suction pipe from the tank to the pump with a ¼ turn tank isolation valve mounted at the tank.
2. Provide two (2) 1.5" NST inlets on main tank to pump (suction) line in order to use Aux. Pick up tube device through the pump. Also, provide plug and chain for the 1.5" inlets.
3. Provide (2) 2" piped outlets from pump, one shall be plumbed to a valved 1.5" outlet and shall be furnished with a chrome cap. The second one is to serve as a tank fill line from the pump. The pipe is to extend into and towards the tank bottom to limit foam agitation while filling. Each discharge shall have a 2" quarter turn on/off valve capable of convenient and rapid activation from the operator's area
The third discharge shall be plumbed through a chicsan swivel to a 100' capacity 1.75" preconnected hosebed to permit the rapid transfer of foam concentrate to other tanks or apparatus. The discharge shall have a 1.5" quarter turn on/off valve capable of convenient and rapid activation from the operator's platform area.

C. ACCESSORIES

Provide the following accessories for use with the foam resupply trailer.

- a. Two each approximately 120" inch long PVC 2" cam-lok" suction lines with a 40" pick up tube for pumping concentrate from 55 gallon barrels shall be provided. A cam-lok to 1.5NSTM" adapter shall be provided.
- b. One (1) each PVC 1.5 foam fill tube approximately 48" long with shut off valve. Inlet connection on fill tubes to be 1 ½" NSTF swivel type.
- c. Provide technical manuals, parts manuals, and repair manual for all installed equipment and accessories.

III. TREATING AND PAINTING

A. PAINTING AND LETTERING

A proven paint system shall be used to prime and paint both the foam resupply trailer and the tank with appropriate color paint and shall be of an automotive quality finish. Striping and lettering shall match the end user's specification. A 6" chevron pattern of red and yellow strips shall be provided on the rear of the trailer. The trailer shall have a label stating "purchased with a U.S. Homeland Security Grant".

The trailer shall be white and/or red as specified.

B. LABELS:

All devices will have fixed weatherproof labels or tags. Instructional plates will be mounted directly adjacent to operational controls.

IV. WARRANTIES

A. TRAILER AND TANK WARRANTY

Provide a two (2) year warranty on the trailer and parts. Provide a lifetime warranty on the foam tank.

NORMAL USE ITEMS

The contractor shall warranty the foam resupply trailer to be free from defects in material and workmanship under normal use and service. The obligation under this warranty is equipment or trade accessories (except tires, storage batteries, electric lamps and other devices subject to normal deterioration) supplied that should fail due to poor workmanship.

B. OTHER WARRANTIES

All additional equipment shall be covered by the individual manufacturer's warranty.

C. INSPECTION VISITS

Up to three inspection trips to the manufacturers facility shall be permitted. Expenses shall be the responsibility of the end user.

V. OPERATIONAL ACCESSORIES

- A. 500 gallons of 1 x 3 AR-AFFF Class B UL listed foam concentrate
- B. Two each TFT ME1-VPGI pistol grip 1.5" nozzles with TFT FJ-H detachable foam tube. The nozzles are to be rated at 125 gpm at 75 psi.
- C. One each TFT ME-2-VPGI pistol grip 2.5" nozzle with TFT FJ-H detachable foam tube.
- D. 500' of 1.75" double jacketed firehose coupled in 50' lengths with 1.5" NST couplings.
- E. 300' of 2.5" double jacketed firehose coupled in 50' lengths with 2.5" NST couplings.
- F. **Generator package** - The trailer shall have a mounted gas powered generator with a recoil start 2000 watt Honda generator with a weather proof cover prewired to two individually switched telescoping 500 watt floodlights.
- G. **Receiver Mount Combo Pintle Hook/Ball Hitch**
Receiver Mount Combination Ball Hitch with integral receiver shank. The hitch shall fits 2"square receivers, 2-5/16" ball. The capacity for the Pintle Hook is 12,000 lbs. the capacity for Ball Hitch is 7,000 lbs.
- H. Auxiliary 6' pick tubes shall be provided for all eductors to permit their use with external foam concentrate supplies.
- I. An auxiliary pick tubes shall be provided for the jet-ratio controller or the monitor nozzle to permit their use with external training foam concentrate supplies.
- J. Four LDH spanner wrenches and their holder shall be mounted on the trailer.
- K. A garden hose to .5" flush adapter and two foam can wrenches shall be included in the loose equipment.

VI. TRAINING

The supplier shall support the development of a training program for use by the end user departments.

Recent UPF foam trailer deliveries

State of Connecticut (8 trailers delivered)



State of Massachusetts (20 trailers delivered)



Recent UPF foam trailer deliveries

Columbus Ohio (4 trailers)



SENH Hazmat Team (1 trailer)

