

**CITY OF HOPKINSVILLE
INVITATION TO BID**



BID DOCUMENTS ENCLOSED

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IMPORTANT: If you do not receive all of the pages, please contact the Purchasing Agent immediately.

BID DOCUMENT A
BID NUMBER 06-1212-013-08

INVITATION TO BID
CITY OF HOPKINSVILLE

Office of the Procurement Specialist
101 North Main Street
P.O. Box 707
Hopkinsville KY 42241-0707

Sealed bids addressed to the City Procurement Specialist for furnishing one, Mobile Live Fire Training System for the City of Hopkinsville Fire Department.

Bids will be received at the Lackey Municipal Center, 101 North Main Street, Room 160, Post Office Box 707, Hopkinsville, Kentucky, until 1:00 p.m., local time, on June 14, 2012, at which time the bids will be opened and read aloud publicly in the Council Chamber, Second Floor, at the same address. www.hopkinsvilleky.us

“SEALED BID – ONE MOBILE LIVE FIRE TRAINING SYSTEM FOR THE CITY OF HOPKINSVILLE FIRE DEPARTMENT”

The City of Hopkinsville reserves the right to reject any and all bids.

J. DANIEL KEMP
MAYOR
CITY OF HOPKINSVILLE

GENERAL CONDITIONS

1. **INSTRUCTIONS, SPECIFICATIONS AND FORMS:** Instructions, Specifications and forms may be obtained in person or by mail from the Procurement Specialist, City of Hopkinsville, P. O. Box 707, 101 North Main Street, Hopkinsville, KY 42241. Telephone: (270) 890-0230.

- (a) All bids are to be submitted on and in accordance with the attached Bid Form. The form must be signed and dated in the appropriate space.
- (b) Each bid must be submitted in a sealed envelope and clearly and prominently marked on the outside of the envelope with the following:

SEALED BID-MOBILE FIRE TRAINING SYSTEM

- (c) If forwarded by mail, the sealed envelope containing the proposal must be enclosed in another envelope marked **SEALED BID-MOBILE FIRE TRAINING SYSTEM** and mailed to the Procurement Specialist, Tommy Casey, P. O. Box 707, 101 North Main Street, Hopkinsville, KY 42241, allowing sufficient time for such mailing to reach this address prior to the scheduled closing time for receipt of bids.
- (d) Additional information or clarifications of any of the instructions or information contained herein may be obtained from the Office of the Procurement Specialist.
- (e) Any bidder or bidders finding any discrepancy in or omission from the specifications, in doubt as to their meaning, or believing that the specifications are discriminatory, shall notify the City Procurement Specialist in writing within 5 days of the scheduled opening of bids. Exceptions as taken in no way obligates the City to change the specifications. The City Procurement Specialist will notify all bidders in writing, of any interpretations made of specifications or instructions.
- (f) The City will assume no responsibility for oral instructions or suggestions. All official correspondence in regard to the specifications should be directed to and will be issued by the City Procurement Specialist.

- (g) The successful bidder will be required to purchase a City of Hopkinsville vendor's license prior to the official award of the bid

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- (h) Any bidder may withdraw his bid either in person or in writing at any time prior to the scheduled time for closing the receipt for bids. Withdrawals after the scheduled time for closing the receipt of bids will not be permitted.

2. AWARD OF CONTRACTS

- (a) All bids will be judged on the basis of best buy to the City and compliance with the General Instructions and conformance with the specifications.
- (b) Any other considerations or basis for judgment will be stated in the specifications.
- (c) The City Procurement Specialist reserves the right to award contracts or place orders to a single source or divide awards and orders or enact such combination as shall, in his judgment, be in the interest of the city.

3. COMPETITION

In order to assure fair competition and to permit determination of the best bid:

- (a) The name of any manufacturer, trade name, or manufacturer or vendor catalog number mentioned in the specifications or Bid Form is to designate a standard of quality and type and for no other reason.
- (b) Bids which show any omission, irregularity, alteration of forms, additions not called for, conditional or unconditional unresponsive bids, or bids obviously unbalanced may be rejected.
- (c) All bids must be accompanied by such descriptive literature and documents as may be called for by the specifications or Bid Form.
- (d) Specifications provided are based on City needs and uses, estimated costs of operation and maintenance, and other significant and/or limiting factors to meet City requirements and shall be consistent with City policies. Minimum specifications and maximum specifications where included, are not established arbitrarily to limit competition or to exclude otherwise competitive bidders.

- (e) The Detailed Specifications are used to designate a standard of quality and type and for no other reason.

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4. DISPUTES

In cases of disputes, as to whether or not an item or service quoted or delivered meets specifications, the decision of the City Procurement Specialist, or authorized representative, shall be final and binding on all parties. The City Procurement Specialist may request written recommendation of the head of the City agency using the item.

5. EXCEPTIONS

The submission of a bid shall be considered an agreement to all the terms, conditions and specifications provided herein and in the various bid documents, unless specifically noted otherwise in the space provided on the Bid Form. Major exceptions to the bid may result in the rejection of the bid.

6. BID BINDING

Unless otherwise specified, all formal bids submitted shall be irrevocable for sixty (60) calendar days.

7. UNIT PRICING

Unless clearly shown on the Bid Form that it is the intent of the bidder that a reduced total price is being offered on the basis of receiving an award of all items covered by the total, any totals should be the actual sum of the extension of unit price(s), extended price(s), and/or total price(s), unit prices will govern and the bid will be refigured accordingly.

8. COMPLETION TIME

The bidder is to indicate on the Bid Form the approximate time for completion of specified work.

9. WARRANTY

The parts furnished in accordance with these specifications shall be guaranteed to be free from defect in workmanship and materials.

10. DETERMINATION OF AWARD

Price.....40
Conformance with Minimum Specifications...60

TOTAL 100

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SPECIFICATIONS

DETAILED SPECIFICATIONS

The following are minimum specifications desired by the City of Hopkinsville.

BIDDER SPECIFICATIONS

Bidder is requested to indicate either by writing "Comply" or "Exception" whether his product meets the minimum specifications as listed on this opposite side. If "Exception" is written, please indicate in the space provided the deviation.

FAILURE TO PROPERLY COMPLETE AND RETURN THE FOLLOWING PORTION OF THIS BID PACKET MAY RESULT IN YOUR BID NOT BEING CONSIDERED.

Comply _____ Exception _____

Bid Document

1.0 General Information

- 1.1 The Hopkinsville Fire Department is seeking sealed bids for a mobile live fire training system. The system shall be designed to accommodate training in a manner which provides for safety first, while allowing for realistic training scenarios.
- 1.2 The system must be designed and built utilizing the most current codes, standards and recommendations published for this type of equipment. The system design and equipment must be tested and certified compliant with these codes and standards by a Nationally Recognized Testing Laboratory (NRTL).
- 1.3 The equipment shall utilize propane/liquid petroleum gas (LPG) in the vapor state as the fuel source.
- 1.4 Operational equipment must include a smoke machine with discharge equipment, gas detection, temperature monitoring and include password protection.
- 1.5 Each prop must be constructed of corrosion resistant steel. All pilot and burner equipment will utilize stainless steel components with intermittent pilot ignition.
- 1.6 The burner management equipment must provide verification of the pilot and main burner flame.
- 1.7 The system must provide the instructor with the ability to manage fire flame levels and flame spread with at least three (3) levels of flame height.

2.0 Instructions

- 2.1 Each bidder shall carefully read the included specifications and examine all documents for the equipment requested prior to submitting an offer. All offers shall be in compliancy with current codes and standards for this type of equipment. Current codes shall supersede errors in specification.
- 2.2 If any exceptions are taken to any portion of the bid document, the supplier must clearly indicate the exceptions taken and include a full explanation on the Alternative Document Sheet (Exhibit B). Failure to identify exceptions or proposed changes with a full explanation will constitute acceptance by the vendor to deliver the product as specified.

3.0 Qualifications

- 3.1 Each manufacture of fire training equipment that desires to submit a bid package must submit all of the following documents in writing to the owner representative with the bid package, to be qualified as a vendor.
 - 3.1.1 Company list including all business names that the company has offered live fire training equipment under. The list must include any and all business names (including acquisitions) that the company has done business as (DBA).
 - 3.1.2 Company history including a minimum of 10 years offering computerized live fire training systems utilizing LPG.
 - 3.1.3 Five (5) Customer References (Exhibit D) that include completed projects, of equal or greater size, that utilize computer controls and LPG as a fuel source.
 - 3.1.4 Written documentation of the equipment certification for the completed live fire training equipment offered:

- a. Certification from a Nationally Recognized testing Laboratory (NRTL) (*Dated within the last 12 months*) in compliancy to the most current versions of UL 508A, NFPA 54, 58, 70, 79, 86, and 1402. The NRTL must meet the requirements of OSHA 29 CFR 1910.7
 - b. A compliancy letter from an Independent Engineering firm of a completed safety analysis and flame failure analysis of the operational system. The FTA and FFA must be in compliancy with MIL-STD 882D at a minimum.
- 3.2 Each prequalification package shall also include the following:
- 3.2.1 Published promotional literature of the proposed equipment that is a standard off the shelf item currently offered in the industry.
 - 3.2.2 The detailed Compliancy Document (Exhibit A) that verifies capability to manufacture and maintain the equipment offered in comparison to the specification.
 - 3.2.3 A written detailed list of conflicts with the manufactures ability to offer any portion of the proposed bid specification package.

4.0 Approved Vendors

Fireblast 451 Inc. Corona, CA 951 277-8319 Fax 951 279-1705

5.0 Systems Equivalent

- 5.1 All offered systems shall be equivalent to the following:
 - a. Fireblast - Fireflash Trainer Series
- 5.2 Bidder shall list the brand name and model of system offered in relation to product literature.

6.0 Code Compliancy

- 6.1 This system shall meet or exceed the most current codes, standards and guidelines for this type of equipment. Applicable documents must include at a minimum:

NFPA 54	the National Fuel Gas Code	2012 edition
NFPA 58	LP Gas Code	2011 edition
NFPA 70	NEC	2011 edition
NFPA 79	Electrical Standards for Industrial Machinery	2012 edition
NFPA 86	Standard for Ovens and Furnaces	2011 edition
NFPA 1402	Guide to Building Fire Service Training Centers	2012 edition
UL-508A	Standards for Industrial Control Equipment	2005 edition
ANSI Z21	Standards for Appliance Connection	2009 edition
ANSI Z83	Series Standards for Gas Utilization Equipment	2006 edition
- 6.2 Equipment must be certified compliant by an NRTL in relation to the above listed codes and standards

7.0 Specifications

- 7.1 Description
The portable self contained trainer shall provide a minimum of 320 square feet of interior training space with 744 square feet of total training space. Unit shall include a generator, fuel source, three (3) burners including flashover/rollover, a smoke

generation and distribution system, reconfigurable wall panels, ventilation pitched roof with safety railings, chop hatch, basement access, exterior rear ladder, Denver window prop, and an equipment room on a portable transport trailer with exterior staircases. The unit's safety features shall include gas detection (LEL monitoring), temperature monitoring, pilot and flame monitoring, fuel delivery system with fail-safe valves, automatic and manual safety shutdowns and a makeup intake air and an automatic ventilation system.

7.2 Training Capabilities

Simulator training capabilities shall include at a minimum all of the following:

1. Fire suppression techniques
2. Interior fire attack
3. Exterior fire attack
4. Direct and indirect fire attack
5. Flashover recognition and tactics for suppression
6. Back draft recognition and prevention
7. Fire attack below grade (basement)
8. Variable room/wall interior configuration
9. Forcible entry
10. Self rescue
11. Search/rescue in low or limited visibility environments
12. Above ground fire training
13. Denver Rescue
14. Ventilation, vertical
15. Ventilation, horizontal
16. Tactics and strategies
17. SCBA use
18. RIT team

8.0 Trailer

8.1 Chassis

The framework shall consist of two (2) 12" I-beams constructed in a drop deck configuration. Overall length of the frame shall be 53' with the lower deck portion at 40'. Dual axes with anti-lock air brakes and a 2-speed landing jack shall be mounted to the frame. The lower deck height shall span 38" above ground level.

The chassis shall have reflective markings and required LED lighting to meet DOT requirements.

The trailer shall utilize a standard fifth wheel configuration with a king pin attachment.

8.2 Structure

The training structure shall utilize a 40' modular ISO container, constructed of corrosion resistant material, which shall be mounted to the mobile chassis.

All additional manufactured equipment installed within the burn area is to be constructed of non-combustible materials.

Training compartment entrances shall include two (2) floor entrance doors into the burn room, two (2) windows, and a basement hatch with staircase access into the burn chamber.

The main burn chamber shall include floor drains to assist in removal of hot water during training.

The operational equipment space shall be an enclosed room located on the upper deck of the chassis.

No special permits (over-weight, width, length or height) shall be required for transporting this equipment.

The exterior shall consist of a steel tube sub frame with high temperature insulation filler. The exterior coating shall consist of .040 aluminum sheeting with a baked enamel finish.

All molding shall be trimmed with polished aluminum diamond plate.

- 8.3 **Graphics**
A \$1,000.00 allowance shall be supplied for vinyl graphics applied to the exterior of the training unit.
- 8.4 **Equipment Room**
The equipment room shall secure all operating equipment from weather and unauthorized use. This room shall be equipped with the fuel delivery system, the PLC, gas monitoring, generator, air compressor, circuit breakers, fuel source (in an outside storage area), and a smoke machine with distribution center. An exterior staircase shall provide access to all equipment.

9.0 Training Compartment

- 9.1 **Interior Walls**
Interior burn areas shall be insulated with material that is rated to withstand (2150 degree Fahrenheit) continual elevated temperature and thermal shock repeatedly. Insulation shall be secured utilizing a minimum .250 corten steel thermal shock barrier. Stainless steel covers will not be accepted.
- 9.2 **Burn Props**
Props shall consist of a corten steel structure with burner top grating. The unit shall be equipped with three (3) live fire burn props. Props shall include two (2) floor burners with a flashover burner.

Floor burners shall be designed to resemble common combustible materials. The props shall be equipped with an electronic ignition, pilot and flame verification with a make up air intake fan. Utilizing LPG vapor, the prop must allow for a full range of flame control from incipient to a free burn.

The system must be capable of burning all three burners simultaneously.
- 9.3 **Flashover/Rollover**
The overhead fire simulator shall be equipped with an electronic ignition, pilot and flame verification with a make up air intake fan. Utilizing LPG vapor and the wireless controller, the operator shall be able to control rollover/flashover conditions.
- 9.4 **Moveable Configuration**
The training compartment shall be equipped with one (1) fixed wall, three (3) moveable walls, and four (4) moveable wall panels to simulate multiple rooms in the main burn chamber. A forcible entry point is installed in the fixed interior wall assembly.
- 9.5 **Forcible Entry**
Unit must include an integrated retractable forcible entry jamb constructed of steel tubing providing for repeatable training exercises with auto reset capabilities. The forced door design shall include a heavy gauge double sided door pan with a minimum .250 steel strike plate for ram door forcing capabilities. Maze walls with forcible panels will not be accepted.
- 9.6 **Self Rescue Prop**
A through the wall, breach able opening including wood stud hangers and drywall track inserts shall be included in a fixed mounted wall assembly in the trainer. Maze walls with breach area will not be accepted.

- 9.7 **Denver Prop**
A window with a 24" x 36" restricted opening shall be provided. The prop shall include an interior hinged wall system that creates a narrow passage to accurately conduct the training exercise. The wall system should include securing attachments to keep the walls in place when being utilize and retracted.
- 9.8 **Ventilation Prop**
A roof prop simulator with a chop out hatch shall be included on this unit. It shall be pneumatically raised utilizing two (2) rams with stainless steel shafts. The lifting system shall be controlled from the operators Touch Panel. Manual lifting systems are not permitted.
- This prop must be an 8' x 12' platform providing vertical ventilation training utilizing hand tools and power saws. A 4' x 8' replaceable cutout area shall be located in the center of the training area. The cutout area should include joist hangers to easily locate 2 x 4 studs in place between exercises.
- OSHA compliant safety railings shall surround the ventilation prop. All railings shall include attachments specifically designed for the system that secure the railings during transport. The attachment mechanism should also be utilized to secure the railings while erected during training. Temporary straps are not an acceptable securing attachment point.
- 9.9 **Basement Prop**
A staircase entrance from the deck, with hatch cover, shall be provided to allow entrance to the burn chamber below. The staircase shall be constructed of corrosion resistant material with grip strut tread surfaces. All rooftop and staircase railing shall meet OSHA compliancy.
- 9.10 **Exterior Rear Ladder**
An exterior rear ladder shall be included that provides access to the roof of the training unit. The ladder shall be constructed with grip strut treads.
- 9.11 **Access Stairs**
Each exterior door shall include a detachable staircase. The stair shall be constructed with grip strut treads. Hand rails shall be OSHA compliant and designed to be removable for transport.
- 9.12 **FDC Standpipe**
An FDC Standpipe system shall be included with one (1) 2 1/2" female swivel connection and two (2) 1 1/2" connections, one (1) on the interior main floor and one (1) on the exterior of the second floor. The second floor discharge port shall be removable for travel

10.0 Systems/Equipment

- 10.1 **Power Supply**
A generator shall be included that sufficiently supplies the required power to adequately perform all operational components simultaneously. The unit should be an RV style unit that has reduced noise reduction capabilities. The unit shall also include a shore power receptacle to allow for a stationary power source where available.
- 10.2 **Controls**
The operating system shall include a Programmable Logic Controller (PLC) with a 12" Human Machine Interface (HMI) Touch Panel (TP).
- The PLC shall control all operating functions and system monitoring, including the gas delivery system. The operator shall utilize the TP to initiate all functions. Viewings of

all operational functions shall be displayed on the TP. Maintenance and operation history shall also be displayed on the HMI.

System operation, including flame height and smoke distribution, shall be controlled utilizing a wireless handheld pendant. The pendant shall allow the operator to control flame increases including flashover/rollover activation while delivering smoke to the training environment.

The system shall be password protected and provide for verification of each trained operator. The system must have the capability of multiple password levels. Each trained individual should be administered a unique password that only they will access the system utilizing. An administrator password level shall also be included that will allow selected department personnel to modify passwords and system functions for which they are trained.

10.3 Touch Panel Display

The Touch Panel display shall offer the ability for the operator to view and control the following equipment.

Burner Status	Shall verify that the flame propagation is adequate.
Flame Control	Shall offer the operator to change control modes from automatic to manual and control fire growth from incipient to free burn.
Fixed Mode	Factory programmed flame control setting for automatic flame operation.
Buttons Mode	Operator selection of Low, Medium, and High flame control settings that can vary during operation.
Smoke	Shall provide manually or automatically controlled discharge of smoke into the training area. Run timers shall be integrated for output duration control by the operator.
Flashover	Shall provide the ability to control ignition, pilot, flame and duration.
Ventilation	Shall provide manual activation of the exhaust fan to remove gas and heat. (Auto activation interlocked with safety devices must also be included).
Gas Monitoring	Shall display the level of LEL in percentage measurements within the training area. (Color and alarm system shall indicate status).
Temperature	Shall display temperature levels at 5' above floor within the training area. (Color and alarm system shall indicate status).
E-stop	Shall record the status of each emergency stop station and displays the status.
Alarm	Shall display functional status of all operating and safety equipment and initiate an automatic alarm in the event of safety device activation.
Passwords	All functions shall be password protected to each operator trained on the unit. Operators shall be system monitored via the TP.

10.4 Electrical

All electronic components shall be UL 508 (Industrial Control Equipment) certified for the application in which they are utilized. Control panels must be designed, manufactured, certified and labeled to UL 508A (Industrial Control Panels) compliancy.

- 10.5 **Pneumatics**
The unit shall include a two (2) horsepower air compressor with a minimum 20-gallon storage tank. Pneumatic functions shall include operation of the ventilation prop rams and prop control valves.
- 10.6 **Fuel Storage**
The system shall be complete with two (2) 420 lb LPG cylinders with a manifold connected to the fuel delivery system. LPG cylinders shall be hard mounted to the unit with easy fill capabilities. LPG cylinders must meet DOT requirements for portable transport of pressurized cylinders and securing.
- 10.7 **Smoke System**
The training unit must include a smoke system. The smoke system shall utilize the included distribution center to the burn chamber. The system shall be capable of providing low visibility training environments during fire conditions.
- 10.8 **Data Tracking**
The training unit must include data tracking. Recording of data shall include password logging, event messaging, alarm messaging, fault counters, system messaging, and run timers and counters. Serviceable component runtimes shall also be monitored and displayed for preventative maintenance awareness and system maintenance records. The information shall be capable of being viewed from the main operator control screen.

11.0 Safety

- 11.1 **Gas Monitoring**
The training unit shall include gas monitoring in multiple locations. A draw sample of the interior air quality of the training unit is required and shall verify a safe atmosphere during operation. The unit shall be equipped with an infrared monitoring system that continually monitors the environment prior to and during all burn operations. A catalytic bead device is not acceptable for this application. The gas monitoring unit shall be interlocked with the gas delivery system and additional safety features as specified in the NFPA 86 and 1402. The gas concentration levels shall be constantly displayed on the touch panel.
- The system must verify a safe atmosphere prior to operator access. The systems shall be preset to a 15% LEL warning level and 25% LEL alarm and shut down. A purge cycle shall then activate automatically. The gas monitoring unit features shall be interlocked to gas delivery and exhaust fan systems. Audible and visual alarms shall be activated during all elevated LEL conditions.
- 11.2 **Temperature Monitoring**
Temperature monitoring shall be included in two (2) locations within the training unit. Constant temperature monitoring shall exist whenever power is supplied to the system. Temperature sensors shall be located 5' above the floor level and initiate warning and automatic compartment ventilation at 450^o F. Once the training room reaches 500^o F the systems shall activate an emergency shut down. All gas delivery system functions and smoke machine operation shall stop. A full cycle purge shall then activate automatically through interlocks in the safety system and provide compartment ventilation until the temperature is reduced below the warning point. The system shall require the unit to provide a full air exchange of the training environment prior to the commencement of training.
- 11.3 **Pilot Flame Status Monitoring**
The system shall utilize ultra violet burner management. Independent constant monitoring of flame propagation at each pilot burner shall be supplied. If a failure of the pilot burner occurs, the system shall automatically shutdown. The pilot burner shall be inextinguishable. In the event that there is a failure of adequate pilot flame

production, the fuel delivery system and all inline safety valves, shall close. Display status messaging shall activate on the touch panel.

11.4 Fuel Delivery

The fuel valve assembly shall be installed complete within an operation control rack. The fuel delivery system shall be equipped with fail-safe, safety shutoff valves that are UL listed and FM approved for gas use. A proof of closure switch and position status shall be on all prop valves. The gas valve train shall include a secondary safety valve for all operational valves per NFPA 86. All gas pipe installation shall be compliant with NFPA 54 and 58. Internal gas regulation shall be included in this assembly. The equipment shall be assembled with stainless steel piping and tubing.

11.5 Exhaust System

An exhaust ventilation fan shall provide air exchange of the interior atmosphere of the training unit. The exhaust system shall be designed to remove heat and by product of combustion. Upon start up of the equipment, the facility shall begin to exchange air and establish a safe training environment. Upon a system safety fault (over temperature, high gas level, system malfunction status) or manual activation of an emergency stop, automatic activation of the exhaust system shall initiate. The purge cycle shall continue until predetermined safety levels have been reached and reset.

11.6 Makeup/Combustion Air

Combustion fans shall be utilized with each burn prop to supply fresh air and assist in management of the pilot and burner system. Combustion fans shall provide assisted burner management during burn operations by supplying the proper amount of air to sustain adequate combustion and flame propagation.

11.7 Automatic and Manual Safety Shutoffs

The burn area shall consist of manual emergency shut down stations. In addition, an e-stop shall be located on the main control enclosure. The system shall require activation of a dead man switch for fuel operations.

Activation of safety systems such as elevated temperature above 500° F or LEL levels that exceed 25% shall automatically activate interlocks and discontinues all training activity.

In the event of a power loss, all systems shall be interlocked to fail safe (closed) position. Upon manual or automatic shutoff, an operator notification shall display on the touch panel and an operator acknowledgment shall be required before the system operation can continue.

(Exhibit A)

Gas Fired Training Prop Specification Compliance Document

The supplier must utilize this form to state whether they comply with each section. Any "No" answers must be clearly explained on the Alternate Document Sheet.

Specification Section Number	Specification Section Title	Comply (Yes/No)
1.0	General Information	
1.1	Mobile Training System Bid	
1.2	Current Codes/NRTL Certification	
1.3	Propane/LPG Fuel Source	
1.4	Operational Equipment	
1.5	Prop Construction	
1.6	Burner Management	
1.7	Flame Levels/Spread	
2.0	Instructions	
2.1	Examine Specifications	
2.2	Exceptions	
3.0	Qualification	
3.1	Qualification Package	
3.1.1	Company List	
3.1.2	Computerized Live Fire Training History	
3.1.3	Customer References	
3.1.4	Equipment Certification	
3.2	Additional Qualification Requirements	
3.2.1	Published Promotional Literature	
3.2.2	Detailed Compliance Document	
3.2.3	Detailed List of Specification Conflicts	
4.0	Approved Vendors	
5.0	Systems Equivalent	
5.1	Equivalent Systems (Fireblast Fireflash Series Trainer)	
5.2	Brand Name/Model	
6.0	Code Compliance	
6.1	Codes/Standards	
6.2	NRTL Certification	
7.0	Specifications	
7.1	Description	
7.2	Training Capabilities	
8.0	Trailer	
8.1	Chassis	
8.2	Structure	
8.3	Graphics	
8.4	Equipment Room	

Specification Section Number	Specification Section Title	Comply (Yes/No)
9.0	Training Compartment	
9.1	Interior Walls	
9.2	Burn Props	
9.3	Flashover/Rollover	
9.4	Moveable Configuration	
9.5	Forcible Entry	
9.6	Self Rescue Prop	
9.7	Denver Prop	
9.8	Ventilation Prop	
9.9	Basement Prop	
9.10	Exterior Rear Ladder	
9.11	Access Stairs	
9.12	FDC standpipe	
10.0	Systems/Equipment	
10.1	Power Supply	
10.2	Controls	
10.3	Touch Panel Display	
10.4	Electrical	
10.5	Pneumatics	
10.6	Fuel Storage	
10.7	Smoke System	
10.8	Data Tracking	
11.0	Safety	
11.1	Gas Monitoring	
11.2	Temperature Monitoring	
11.3	Pilot Flame Status Monitoring	
11.4	Fuel Delivery	
11.5	Exhaust System	
11.6	Makeup/Combustion Air	
11.7	Automatic and Manual Safety Shutoffs	

(Exhibit D)

Customer References

The supplier must utilize this form to supply customer references for each unit. This document should be copied for each reference offered. A minimum of five (5) units must be supplied.

Department name:	
Address:	
Contact name:	Contact phone #:

Model name/number:	Delivery date:
Type of equipment:	Number of props:

List all props installed including options:

Prop #1	Prop #2	Prop #3	Prop #4	Prop #5

NRTL certifying agency:	Yes	No	Contact Name:	Contact Number:

BID FORM

BID DOCUMENT D
BID NUMBER 06-1212-013-08

Company Name: _____

Address: _____

Telephone: _____ Fax _____

ITEM DESCRIPTION

BIDDER DESCRIPTION

TOTAL COST

I, the undersigned do hereby certify that I am a duly authorized representative of _____ located at _____
and I have carefully examined the Instructions, Specifications and Bid Form and agree to all terms and conditions set forth in them.

Signature: _____ Attest: _____

Title: _____ Date: _____