



Ocean County Board of Commissioners

OFFICE OF THE  
OCEAN COUNTY COMMISSIONERS

Director Barbara Jo Crea  
Deputy Director Gary Quinn  
Commissioner Virginia E. Haines  
Commissioner John P. Kelly  
Commissioner Frank Sadeghi

101 Hooper Avenue  
Toms River, New Jersey  
08754-2191  
(732)929-2005  
(732)505-1918

Board Meeting Agenda

Date: September 18, 2024 - 4:00 PM  
Location: Administration Building  
Room 119  
101 Hooper Avenue  
Toms River, NJ 08754

Agenda: Awarding a Contract for the FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS to Symtech Fire, LLC, the sole qualified bidder. (B2024-149)

Official Resolution#	2024001422						
Meeting Date	09/18/2024						
Introduced Date	09/18/2024						
Adopted Date	09/18/2024						
Agenda Item	j-1						
CAF #							
Purchase Req. #	B2024-149						
Result	Adopted						
COUNTY COMMISSIONER	PRES.	ABS.	MOVE	SEC	AYE	NAY	ABST.
Crea	<				<		
Quinn		<					
Haines	<		<		<		
Kelly	<			<	<		
Sadeghi	<				<		

I HEREBY CERTIFY THAT THIS DOCUMENT IS A TRUE, COMPLETE AND ACCURATE COPY OF THIS RESOLUTION, ADOPTED BY OCEAN COUNTY BOARD OF COMMISSIONERS, NJ AT THE MEETING REFERENCED THEREON

Michelle I. Gunther

Clerk Of The Board

CONTRACT NO. MUST BE ON ALL PAPERS, DOCUMENTS, INVOICES, VOUCHERS	
NO.	B2024-149

## RESOLUTION

September 18, 2024

WHEREAS, on August 27, 2024, pursuant to legal advertisements therefor, sealed bids were received for the FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS for the County of Ocean; and

WHEREAS, at the advertised time, one bid was received from the following bidder:

Name of Bidder  
Symtech Fire, LLC

Address of Bidder  
P.O. Box 493  
Berkeley Heights, NJ 07922  
(908) 514-6629

; and

WHEREAS, after the receipt and examination of same, the County Purchasing Agent has now recommended to this Board that the lowest qualified bid, according to specifications, namely that of, SYMTECH FIRE, LLC be accepted.

NOW, THEREFORE, BE IT RESOLVED by the BOARD OF COMMISSIONERS of the COUNTY OF OCEAN, STATE OF NEW JERSEY, as follows:

1. The Director and Clerk of this Board are hereby authorized and directed to enter into a contract accepting the bid for the Furnishing and Delivery of Simulated Live Burn Fire Props, for the County of Ocean, for the contract period from date of award through September 17, 2025, a period of one (1) year, OR until delivery is complete unless otherwise stated. The County reserves the right to extend the term of the contract, pursuant to N.J.S.A. 40A:11-15.

A. SYMTECH FIRE LLC for Two (2) Items to wit:

Item Nos: 1 and 2

For a Total Lump Sum Award (Item Nos. 1 and 2) of \$501,417.00.

This vendor has extended this contract to County Cooperative Contract System Participants, Identifier No. CK-02-OC.

2. Payments for the services to be acquired by these contracts shall be made upon the approval of vouchers submitted by the successful bidder in accordance with the requirements of the Board of Commissioners and subject to the Board of Commissioners customary procedures. Delivery shall be made upon receipt of a Purchase Order issued by the Ocean County Department of Purchase, upon which delivery locations and needed quantities shall be indicated.

3. Funds for these services shall be available within the following funding Source: Fire/First Aid Training Center O.E.

4. The contract number must be placed on all papers, documents, invoices and vouchers pertaining to said contract, the number being B2024-149.

Be it further resolved that certified copies of this Resolution shall be made available to the County Auditor, Department of Purchasing, Department of Finance, Fire/First Aid Training Center and Symtech Fire, LLC., the successful bidder.

## [SYMTECH FIRE LLC] RESPONSE DOCUMENT REPORT

Bid No. TBD

## FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS

Bidder also understands that only one (1) bid submission shall be considered. Please DO NOT Submit a manual bid response. Submitting a manual response in addition to the electronic response is cause for rejection of your bid.

Confirmed

## PRICE TABLES

## FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS

Pricing shall include shipping, delivery and calibration.

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Make/Model:	Delivery, A. R.O.:	Warranty:	Comments:	Custom
✓ 1	Furnishing And Delivery Of Class A Strip Mall/Tax Payer Fire Training Simulator Training Prop Model: Symtech Strip Mall/Taxpayer Fire Simulator St-Pro, As Specified Or Equal	1	EA	\$426,178.00	\$426,178.00	Symtech Taxpayer				

Introduced on: September 18, 2024

Adopted on: September 18, 2024

Official Resolution#: 2024001422

[SYMTECH FIRE LLC] RESPONSE DOCUMENT REPORT

Bid - FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS



## [SYMTECH FIRE LLC] RESPONSE DOCUMENT REPORT

Bid No. TBD

## FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Make/Model:	Delivery, A. R.O.:	Warranty:	Comments:	Custom
2	Furnishing And Delivery Of An SUV Vehicle Fire Training Simulator Model: Symtech SUV Fire Simulator St+, As Specified, Or Equal	1	EA	\$75,239.00	\$75,239.00	Symtech ST+				
TOTAL					\$501,417.00					

Introduced on: September 18, 2024

Adopted on:

[SYMTECH FIRE LLC] RESPONSE DOCUMENT REPORT

Official Resolution#: 2024001422

Bid - FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS

COMPLIANCE PAGES FOR FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS

**ITEM #1 – FURNISHING AND DELIVERY OF CLASS A STRIP MALL/TAX PAYER FIRE TRAINING SIMULATOR TRAINING PROP MODEL: SYMTECH STRIP MALL/TAXPAYER FIRE SIMULATOR ST-PRO, AS SPECIFIED OR EQUAL**

**OVERVIEW:**

Furnishing, delivery and installation of a 2.5 story, Class A Strip Mall/Taxpayer Fire Simulator designed to provide hands-on training to firefighters in recognition, tactics and extinguishment surrounding strip mall and tax payer fires including fire extension into a shared attic space. Inclusion of a train-the-trainer program for instructors and warranty.

**COMPLIANCE**  
**YES**      **NO**

**SCOPE**

Furnish, Deliver and Install a Stripmall/Taxpayer Fire Simulator, onto County's existing concrete pad.

The Facility shall include at least the following:

Multi-unit deep, multi-story container facility constructed from International Organization for Standardization (ISO) containers  
(approximate footprint 32 ft wide x 54 ft long).

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Facility must be fully usable, i.e., all container roofs shall have roof decks consisting of galvanized bar grating (no substitutes) and the facility shall have multiple multi-story staircases, landings, and it shall include apartment style balconies.

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All exterior staircases and landings and balconies shall be galvanized (**no exceptions**).

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Include heavy duty steel tubular construction for all openings.

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Include smooth finishes flashed as necessary for a complete job.

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Re-connect bottom rail of each container with the top rail anywhere an opening greater than 30" tall or wide exists.

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Consist of a modular design welded together on site for durability and longevity.  
*Simple stacked / bolt-together designs shall not be acceptable.*

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Include marine and industrial grade paint, choice of color. Interior must be painted, but thermal lining shall be unpainted.

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Include rooftops with galvanized bar grating (no substitutes) and OSHA Compliant Guard Railing. All exposed container rooftops must include galvanized bar grating and railings.

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Include multiple points of egress via personnel doors and include windows for differing training scenarios. Facility must include a significant number of exterior lockable training doors and training windows. Training windows shall include stainless steel laddering plates.

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Include numerous interior bulkhead walls and doors to create challenging training scenarios. Interior training spaces shall include open-floor concepts in some cases where rooms and/or burn rooms span multiple containers.

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COMPLIANCE PAGES FOR FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS

**ITEM #1 – FURNISHING AND DELIVERY OF CLASS A STRIP MALL/TAX PAYER FIRE TRAINING SIMULATOR TRAINING PROP MODEL: SYMTECH STRIP MALL/TAXPAYER FIRE SIMULATOR ST-PRO, AS SPECIFIED OR EQUAL (CONT'D)**

	<b><u>COMPLIANCE</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
<b>SCOPE (Cont'd)</b>		
Include multiple exterior staircases with landings in multiple locations.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Include a Fire Department logo (min.30") and multiple theming signs for a realistic exterior aesthetic. Vinyl is not acceptable. Use street signs or other durable materials for signage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The Live-Fire Component of the training facility shall include multiple fully protected burn rooms on multiple floors (min. of 6 total burn rooms). Burn room insulation material shall be rated for a minimum of 2,300 degrees F and shall be covered with a steel heat shield. Thermal protective system must be designed to withstand repeated thermal shock without warping or degrading.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Each burn room shall include heavy duty steel constructed props. Props to include: Stove Prop, Sofa Prop, Checkout Counter Prop, and three (3) Bed Props.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Props must also have the ability to accept a 75 lb. Class "A" fuel load in multiple locations per prop.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Equipment rooms/closets shall be included for future expansion up to and including future gas props. Design shall make these usable for search and rescue in the interim.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Burn rooms shall be free from any and all Class "A" combustibles as per NFPA 1403.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Flooring shall consist of a 3/16" steel plating with reinforcement covered with pavers for all burn rooms.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Include a live fire simulation extension in a min of (4) locations, including smoke and sound effects all controlled wirelessly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Include a forced entry door prop.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Include (4) Re-settable Ceiling Breach Panels (Fire Extension Checkpoints).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Include 40-ft x 8-ft Pitched Roof w/ 4-ft x 8-ft Sacrificial Chopout (8/12 Pitch).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Include 14-ft x 8-ft Pitched Roof w/ 4-ft x 8-ft Sacrificial Chopout (6/12 Pitch).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Include a Smoke Generation System.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Include 4' x 8' Wall Breach Simulator (holds two (2) vertical 2 x 4' and Drywall on Both Sides).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Introduced on: September 18, 2024		
Adopted on: September 18, 2024		
Official Resolution#: 2024001422		

COMPLIANCE PAGES FOR FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS

**ITEM #1 – FURNISHING AND DELIVERY OF CLASS A STRIP MALL/TAX PAYER FIRE TRAINING SIMULATOR TRAINING PROP MODEL: SYMTECH STRIP MALL/TAXPAYER FIRE SIMULATOR ST-PRO, AS SPECIFIED OR EQUAL (CONT'D)**

	<b><u>COMPLIANCE</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
<b>SCOPE (Cont'd)</b>		
Include Attic Access Panel.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Include Roof Shoring Prop.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pitched roof prop for vertical ventilation training purposes, including multiple chop-out areas and provisions to mounting roof rafters under sacrificial plywood.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Preliminary proposal drawings are required with the bid/proposal. Final drawings shall be submitted to the County upon contract award.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>2.5 Story Premium Container Building Structure:</b>		
(4) Modified 40-ft ISO Standard Height New/1-Way Container		
1,756 Approx. Total Sq. Ft. of Training Space (1,280 Sq. Ft. Interior / 476 Sq. Ft. Exterior)		
Modular Bolt-Together Design		
Marine Grade Paint (choice of color)		
Heavy Duty Steel Framing System (for all openings)		
Galvanized Bar Grating Roof Working Decks		
Galvanized Steel Roof Railings		
(10) Exterior Training Doors (lockable) (including forcible entry door)		
(1) Equipment Room/Storage Door		
(6) Commercial Single Training Windows		
(4) Apartment Double Training Windows		
Interior Bulkheads Walls as Per Drawings		
(2) Exterior Galvanized Staircases with Platforms to 2nd Level and Attic Level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Burn Rooms:</b>		
(6) Class "A" Burn Rooms including the following realistic Class "A" Props		
Stove Prop		
Sofa Prop		
Checkout Counter Prop		
(3) Bed Props		
2,300° F Thermal Lining System		
Steel Floors in All Burn Rooms w/ Floor Drains and Scuppers as Required		
Pavers to Finish All Burn Room Floors	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Other Training Features:</b>		
Simulated Attic/Cockloft Fire Extension (Wireless Controls)		
(4) Re-settable Ceiling Breach Panels (Fire Extension Checkpoints)		
40-ft x 8-ft Pitched Roof w/ 4-ft x 8-ft Sacrificial Chop out (8/12 Pitch)		
14-ft x 8-ft Pitched Roof w/ 4-ft x 8-ft Sacrificial Chop out (6/12 Pitch)		
Smoke Generation System		
4' x 8' Wall Breach Simulator (holds two vertical 2x4' and Drywall on Both Sides)		
Roof Shoring Prop		
Attic Access Panel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Introduced on: September 18, 2024		
Adopted on: September 18, 2024		
Official Resolution#: 2024001422		



COMPLIANCE PAGES FOR FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS

**ITEM #1 – FURNISHING AND DELIVERY OF CLASS A STRIP MALL/TAX PAYER FIRE  
TRAINING SIMULATOR TRAINING PROP MODEL: SYMTECH STRIP MALL/TAXPAYER FIRE  
SIMULATOR ST-PRO, AS SPECIFIED OR EQUAL (CONT'D)**

	<b><u>COMPLIANCE</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
<b>Electrical</b>		
Service panel (240/120V 50A) with shore power connection inside facility	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Outlets/lighting in Attic/Cockloft (generator power only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Additional Features</b>		
Forcible Entry doors – Ground Level		
Forcible Entry Doors – Apartment Level (2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Code/Safety Compliance:</b>		
NFPA 1402 Standard on Facilities for Fire Training and Associated Props (Current Edition)		
Occupational Safety and Health Administration (OSHA) Compliant	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Deliverables</b>		
Design Drawings Package		
Delivery to Waretown, NJ		
On-Site Setup/Testing		
Train-the-Trainer Program (minimum of 12 instructors)		
1-Year Standard Warranty		
Schedule to completion	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLIANCE PAGES FOR FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS

**ITEM #2 – FURNISHING AND DELIVERY OF AN SUV VEHICLE FIRE TRAINING SIMULATOR****MODEL: SYMTECH SUV FIRE SIMULATOR ST+, AS SPECIFIED, OR EQUAL****OVERVIEW:**

Furnishing, delivery and installation of an SUV Fire Simulator designed to provide hands-on training to firefighters in recognition, tactics and extinguishment surrounding car and SUV fires and fire extension. Inclusion of a train-the-trainer program for instructors and warranty. Vendor must submit drawings of its proposal with its bid.

**SCOPE:**

Furnish, Deliver and Install an SUV Fire Simulator training prop which shall include at least the following:

	<b><u>COMPLIANCE</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
<b>SUV Vehicle Fire Simulator</b>		
SUV Prop with working doors and hood	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fully Integrated Pilot and Main Burner System	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Integrated Wireless Controls	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Manual Ball Valves in line with Burners to section off/concentrate fire location	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vapor Incipient Fire (4,500,000 btu/hr)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
High Quality Steel Construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>
On-Site Setup	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Train-the-Trainer Program (minimum of 12 instructors)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1-Year Standard Warranty	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Equipment Specifications****Possible Fires and Effects**

The Vehicle Fire system shall be capable of providing Engine, Front Passenger Compartment, Rear Passenger Compartment, Trunk, and Wheel/Tire fires with multi-stage flame control. Pilot flame must be vapor propane. The simulator must have both vapor and liquid supply hoses and valves and burners that can be burned in sequence using the included Wireless Control.

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All pilot and burner equipment shall utilize stainless steel components. The system shall include an intermittent pilot design as specified in NFPA 1402.

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The prop shall provide gas and electric hook ups that can be setup and removed without the use of tools.

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**Industrial Controls:**

- Burner management system
- Wireless control: Push-button design along with centralized control
- Connects to 110v
- Pilot verification
- System reset

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COMPLIANCE PAGES FOR FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS

**ITEM #2 – FURNISHING AND DELIVERY OF AN SUV VEHICLE FIRE TRAINING SIMULATOR****MODEL: SYMTECH SUV FIRE SIMULATOR ST+, AS SPECIFIED, OR EQUAL (CONT'D)****COMPLIANCE****YES****NO****Safety Systems:**

- On-site inspection by an OSHA-recognized NRTL
- Independent, monitored, and interlocked pilots
- Fail-safe valves (Close in 1 second or less)
- Wireless control - E-stop Switch
- Wireless control - Shock Detection Disable
- Operator Present "Deadman"
- Safe Start Check

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The Vehicle prop shall include cuttable A, B, C, and D pillars, a forcible entry hood, and a sacrificial cutting panel that is easily replaceable. The pillars shall utilize low cost, easily replaceable material that can be obtained at local hardware stores and cut to size. The cutting panel shall be designed to allow firefighters to pie-cut and expose the latch to make entry into the hood compartment.

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The vehicle prop shall include four (4) fully operable doors, a hood with support stand, mock engine block, front individual seats, a rear bench seat, and an operable 2-piece trunk. The roof liner of the vehicle shall be water-cooled for added longevity.

☒☐**Wireless Control System**

The primary means of control shall be a wireless pendant capable of controlling the hose line trainer pilot and main fires and effects.

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The hose line trainer shall be capable of progression from vapor to liquid propane fires. The flame control pendant shall include an emergency shutdown switch when activated, shall immediately shutdown all training fires.

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Systems that require manual modification to the burners, such as opening or closing ball valves, between evolutions shall not be acceptable.

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The fuel gas delivery to the simulator shall be interlocked with a listed commercial flame safeguard system. Audible or visual pilot confirmation or any method other than confirmation via a commercial flame safeguard controller shall not be acceptable.

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A Safe Start Check feature shall be designed into the flame control system for constant monitoring of all safety systems for satisfactory operation, the system shall immediately shut down the fuel delivery to the vehicle fire simulator in the event of safety device activation, manual e-stop depressed or loss of proven pilot flame from the commercial flame safeguard system.

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All electrical cables to accommodate the operation of all devices simultaneously shall be provided by the bidder.

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**ITEM #2 – FURNISHING AND DELIVERY OF AN SUV VEHICLE FIRE TRAINING SIMULATOR****MODEL: SYMTECH SUV FIRE SIMULATOR ST+, AS SPECIFIED, OR EQUAL (CONT'D)**

<b>COMPLIANCE</b>	
<b>YES</b>	<b>NO</b>

**Wireless Control System (Cont'd)**

The Wireless Remote shall include the following:

- E-Stop switch
- Shock Detection Disable – This safety function can prevent the uncontrolled output of commands in specific emergencies. An included sensor can detect if the transmitter receives a hard impact, dropped or thrown. This feature will deactivate the fire generation system.
- IP 65 enclosures (Transmitter and Receiver)
- Wireless charging

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**Control Podium**

A wheeled control podium shall provide secondary means of control. The podium shall include an e-switch, e-stop, pilot and main flame push button for both vapor and liquid fire, and a selector switch to pass control back and forth from the podium or wireless remote.

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**Stainless Steel Ignition (Pilot) Module**

A stainless steel ignition pilot module shall be utilized, including electronic ignition and continuous flame monitoring of the pilot and main burners.

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The ignition fuel delivery system shall be equipped with redundant fail-safe safety shutoff valves that are listed for gas use. The main fuel gas burner shall be separately equipped with two safety fuel gas shutoff valves wired in parallel and piped in series.

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The fuel delivery systems equipment shall provide two-stage main flame operation with independent vapor and liquid propane valve trains. Systems that only offer factory configuration for either vapor or liquid are not acceptable.

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All pilot and burner associated equipment shall utilize stainless steel components. The system shall include an intermittent pilot design as specified in NFPA 1402. It shall include an ionization method for pilot proving for increased reliability. The use of thermocouple and ultraviolet pilot proving methods *are not acceptable*.

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The ignition pilot modules shall be constructed of stainless steel and include a stainless-steel outer heat shield that surrounds the entire ignition pilot module. The heat shield shall be water cooled.

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All LPG rated fuel delivery hoses to accommodate the operation of all devices simultaneously shall be provided as required.

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Additionally, the first stage regulator shall be provided along with any required ACME quick-connect brass adapters for the fuel supply tank

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**ITEM #2 – FURNISHING AND DELIVERY OF AN SUV VEHICLE FIRE TRAINING SIMULATOR****MODEL: SYMTECH SUV FIRE SIMULATOR ST+, AS SPECIFIED, OR EQUAL (CONT'D)**

<b>COMPLIANCE</b>	
<b>YES</b>	<b>NO</b>

**4' x 6' Fuel Spill Burn Pan (Hose Line Trainer)**

The moveable burn pan shall be designed at a minimum to include the following:

- 4 x 6' providing a 24 sq. ft. Fuel Spill Fire Simulator for Hoseline and Extinguisher Training
- Vapor and Liquid Main Burners (*for 4,500,000 btu/hr up to more than 60,000,000 btu/hr*)
- Steel Wheels to easily move pan for training purposes
- Stainless Steel Construction

☒☐**Wheel-Brake / Fuel Tank Rupture Fire**

The pan shall include an additional burner to simulate a wheel-brake / tank rupture fire.

This effect shall be selectable by the ignition officer using the Wireless Remote and shall

- not require any additional manipulation of the pan assembly or any manual ball valves.

☒☐**ST+ SUV Prop**

- The vehicle fire simulator shall represent a mid-size SUV

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Dimensions: 13.5 ft. long x 5 ½ ft. wide x 5 ¾ ft. tall.

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The prop shall include functioning driver and passenger doors, hood with hood support arm, trunk, a dash board with steering wheel, simulated tire constructed of steel, simulated engine block, and front bucket and rear bench seats

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The hood and the lift gate shall have a realistic weight to be raised by trainees.

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The prop must be constructed of a heavy gage, square tube frame structure. The exterior skin shall be of 3/16" steel at minimum. The roof shall be designed to be water cooled.

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The prop must roll on heavy duty casters and have front and rear D-rings to allow the prop to be towed by side-by-side or light duty truck.

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The prop shall include frame rails, bumpers, and wheels that can accept chocks and cribbing for vehicle stabilization.

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The prop shall have tie down points at 4 corners and a means to secure the hood and doors should it be trailered.

☒☐**Technical Support**

Vendor shall provide technical support staff for service and repairs during the warranty period.

☒☐**Warranty**

Each item includes a one (1) year warranty on manufacturer defects and system component failures that occur during normal operations.

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Introduced on: September 18, 2024  
 Adopted on: September 18, 2024  
 Official Resolution#: 2024001422



	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<b><u>Delivery, Installation, and Set-up</u></b>		
The delivery of the equipment shall be coordinated with onsite department personnel.		
Vendor shall deliver, set-up, calibrate, and test operation of car fire simulator.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>OPTIONS</b>		
<b><u>2A. Upgrade to a 5-Burner SUV Fire Prop</u></b>		
Upgrade to a 5-Burner SUV Fire Prop with the following features:		
The SUV fire prop shall represent a mid-size sedan with maximum dimensions of 15 ft. long x 5 ½ ft. wide x 5 ft. tall.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The prop shall include a functioning driver and passenger doors, hood, trunk lid, a dash board with steering wheel, simulated tire constructed of steel, mock engine block, and full width front and rear seat.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The prop must be constructed of a heavy gage sq. tube frame structure and shall also include a water cooling system with FDC for extended prop life. The exterior skin shall be of 1/4" corrosion resistant steel at minimum.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The prop must be on heavy duty casters and have a 2" standard trailer hitch to allow the prop to be relocated for storage by a gator type vehicle.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The SUV Fire Prop must include five (5) integrated, fixed fire generation systems that are permanently installed in the prop.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Each of the Five (5) ignition systems shall be independently controlled from either the <i>Control Console</i> or <i>Wireless Remote</i> as chosen by the operators on any given training day.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Systems that require manual modification to the burners, such as opening or closing ball valves, between evolutions shall not be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The SUV Fire Prop must include five (5) burner zones that are permanently installed in the prop. The burner zones shall consist of an engine fire, front seat fire, rear seat fire, trunk and ground spill fire. All pilot and burner equipment shall utilize stainless steel components. The system shall include an intermittent pilot design as specified in NFPA 1402.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The prop shall provide gas and electric hook ups that can be setup and removed without the use of tools.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLIANCE PAGES FOR FURNISHING AND DELIVERY OF SIMULATED LIVE BURN FIRE PROPS

**ITEM #2 – FURNISHING AND DELIVERY OF AN SUV VEHICLE FIRE TRAINING SIMULATOR****MODEL: SYMTECH SUV FIRE SIMULATOR ST+, AS SPECIFIED, OR EQUAL (CONT'D)**

<b><u>COMPLIANCE</u></b>	
<b><u>YES</u></b>	<b><u>NO</u></b>

**OPTIONS (Cont'd)****2A. Upgrade to a 5-Burner SUV Fire Prop (Cont'd)****Live Fire Prop:**

- Five (5) fully-independent burn zones (engine, front and rear passenger, trunk and rear tire)
- Two-Stage main flame control of each of the five fires (total of 5 vapor valves/burners and 5 liquid valves/burners – 10 valves/burners total)
- High Quality 0.25" Steel Construction
- Operating hood and doors (Pry-able Hood also Counter-Balanced Hood)
- Forcible Entry Hood
- Battery Box with Terminal Post and Cables
- Sacrificial Cut Panel on Hood
- Sacrificial Cut Panel on Driver Side near Door Hinge
- Replaceable Front Door Post
- Foldable Front Seats
- Removable Rear Baby Seat
- Smoke Generation System
- Sound Effect System
- Propane gas supply hoses for prop (liquid rated)

☒☐**Industrial Controls:**

- Burner management system for each zone
- Wireless control: Push-button design along with centralized control
- Connects to 110v
- Pilot verification
- System reset

☒☐**Safety Systems:**

- On-site inspection by an OSHA-recognized NRTL
- Independent, monitored, and interlocked pilots
- Fail-safe valves (Close in 1 second or less)
- Wireless control - E-stop Switch
- Wireless control - Shock Detection Disable
- Operator Present "Deadman"
- Safe Start Check

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