



City of Pigeon Forge Fire Department

Tony L. Watson, Chief



Notice of Bid

The City of Pigeon Forge is requesting bids from qualified vendors on **Structural Firefighting Gear** for the City of Pigeon Forge Fire Department. Bid specifications are enclosed or may be obtained at the Pigeon Forge Fire Department Monday through Friday between the hours of 8:00 am to 4:30 pm. Proposals not meeting the requirements will be rejected.

The City of Pigeon Forge reserves the right to reject any or all bids or to accept the bid deemed most favorable to the city. We also reserve the right to accept any portion or all of a bid.

Bids must be good through June 1, 2013 with the option to extend the bid price for an additional year.

Bidder agrees by placing bid that no bills will be submitted to the Pigeon Forge Fire Department until all items on order are received and accepted by the Pigeon Forge Fire Department as correct.

Bids will be received by the City of Pigeon Forge until 1:30 pm (Eastern Time) February 1st 2012 at which time they will be opened and read aloud at Pigeon Forge Fire Department.

Any question on any item listed, please call Pigeon Forge Fire Department at (865) 429-7381.

All bids must be dated, signed and words "**Structural Firefighting Gear**" shall be prominently displayed on the outside of each individual envelope pertaining to that bid.

Address all bids to:
Pigeon Forge Fire Department
Attn: Tony L. Watson
P.O. Box 1350
Pigeon Forge, TN 37868-1350



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LEGAL RIGHT TO SPECIFY

The Fire Department (for the remainder of this section referred to as the “specifier”) chooses to exercise its Legal Right to Specify as determined by the U.S. Supreme Court’s affirmation of the decision handed down in the case of Whitten Corp. vs. Paddock, by the U.S. District Court of Massachusetts, the First Federal District Court, which in effect states:

- 1) That as trained professionals, specifiers make informed judgments on products that they feel best serve their needs. Also, that proprietary specifications (if chosen) DO NOT violate any antitrust laws. Technically, very few brands of material or equipment are exactly alike, and if the specifier wants to limit the specification to one source, he has the right to do so and enforce it.
- 2) Only the specifier has the responsibility and judgment for determining whether a proposed substitution is an “or equal”.
- 3) That from start to finish in the purchasing process, only the specifier can ultimately decide if another desirable product is available in lieu of the specification.
- 4) Finally, that the courts concluded “the burden is on the supplier or manufacturer, who has NOT been specified, to convince the specifier that their product is equal for the purpose of a particular project”.

The specifier has determined that this product specification shall represent the product to which all offerings shall be compared. Due to the fact that firefighting is an ULTRAHAZARDOUS, UNAVOIDABLY DANGEROUS activity, only trained Fire Department personnel with specific knowledge in the area of Personal Protective Equipment shall be allowed to make the final determining decision on the selection of the appropriate product to serve the Fire Department’s needs.



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PURPOSE AND SCOPE:

This specification defines the minimum requirements for bloodborne pathogen resistant (BPR) firefighter personal protective equipment (PPE) to provide limited protection to fire fighters against adverse environmental effects during structural fire fighting operations and certain other emergency operations where there is a threat of fire or where certain physical hazards are likely to be encountered, such as during non-fire-related rescue operations, emergency medical operations, and victim extraction, as defined by NFPA 1971, *Standard on Protective Ensemble for Structural Fire Fighting*, 2007 Edition (hereinafter referred to as NFPA 1971, except in the Applicable Documents section). In the absence of comment on a particular point, industry standard practice shall be presumed to prevail. Workmanship and material shall be first quality throughout. All exceptions to specifications must be clearly spelled out at the time of bid. In the absence of comment to a specific point, the bidder is required to furnish a wholly compliant garment. Taking a blanket exception shall not be acceptable.

Units of measure:

Current NFPA standards applicable to this product specification express values for measurement requirements in SI (metric-based) units, followed by US (inch-pound) approximate equivalents in parentheses. For the convenience of the fire department, this product specification *reverses the order* and presents the more familiar US approximation first, followed by the SI requirement in parentheses.

CERTIFICATION:

The manufacturer must certify that the garments proposed in its bid meet or exceed all requirements of NFPA 1971. The manufacturer must also list and label this product with Underwriters Laboratories Inc. (UL) or Safety Equipment Institute (SEI), as the third party certification organization prescribed in NFPA 1971. All certification testing and test preconditioning must have been performed by an ISO 17025-certified laboratory. UL, SEI or a UL Authorized Client Test Data Program laboratory will fulfill this requirement.

Certification shall include, by definition, the scope of protection as follows: Coat shall provide limited protection resistance to bloodborne pathogens to the upper torso including the arms but excluding the head and neck interface area and the hand and wrist interface area. The pant shall provide limited protection resistance to the lower torso including the legs but excluding the foot and ankle interface area. The coat and pant overlap shall provide limited protection resistance to the coat/ pant interface area.

The Fabric and Design of the clothing offered must conform to the latest revision requirements of NFPA 1971 and or CGSB 155.1. Independent test data confirming compliance must be provided by the bidder.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____



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SECTION 1 COAT

Coat:

The coat will be designed to minimize restriction to movement and maintain the overlap requirements of all applicable standards. The coat shall incorporate Raglan Sleeve Design. It shall be compatible with other protective equipment which may be necessary, for example, Helmets, Breathing Apparatus, Protective hoods etc. Standard coat will be 30 inch length with removable contoured name patch / thermal overlap protection flap as standard. A 34 inch coat must be available as optional equipment on customer request. A Drag Rescue Device must be incorporated into the coat and constructed and secured to prevent exposure and abrasion whilst not in use.

Does Your Bid Comply With All Aspects Of This Section? **Yes** _____ **No** _____

Sizing:

The coat to fit a firefighter 5'10" tall with 42" chest shall not weigh more than 4.25 lbs. and will be sized to ensure that continuous overlap protection is provided.

Does Your Bid Comply With All Aspects Of This Section? **Yes** _____ **No** _____

Liners:

The Coat shall have a removable liner, and must provide ease of access for easy repair and examination of the linings and outer shell. Inspection ports must be provided in both coat and pants thermal moisture barrier combination to facilitate maintenance and repair.

Does Your Bid Comply With All Aspects Of This Section? **Yes** _____ **No** _____

Closures:

The coat closure shall be zip fastened with a heavy duty #10 brass zip on Nomex tape overlaid with a protective flap to ensure the protective integrity of the garment. This flap will be secured with hook and pile fastener of minimum width of 2" ins. (5cm).

Does Your Bid Comply With All Aspects Of This Section? **Yes** _____ **No** _____



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Cargo Pockets:

Two external hand warmer cargo pockets shall be provided approx. 8.5ins by 9inches, attached by a twin row of sewing with drain holes to ensure drainage. The pocket flap must be a minimum depth of 3.5 ins. (8.5cm) fastened with vertical hook and pile fasteners and incorporate a fabric tab for easy opening with gloved hand. Pockets must have internal puncture resistant reinforcement.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Radio Pocket:

A radio pocket must be provided on the left breast positioned so as not to interfere with the harness straps of S.C.B.A. Radio pocket to be convertible design to accommodate common industry standard radios. Microphone loops must be provided on both sides of chest area.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Accessory Attachments:

Suitable attachments must be provided to ensure a flashlight and pass alarm can be securely available on the garment for immediate use by the firefighter when required.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Special Pockets:

A minimum of 1 Vertical pocket must be provided under the storm flap as extra storage capacity for items such as medical gloves, note pad, eyeglasses etc.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____



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Fastening:

Hook and D fasteners will not be accepted as they add weight to the garment and can conduct heat.

Does Your Bid Comply With All Aspects of This Section? Yes _____ No _____

Reflective Tape:

The coat shall have the minimum fluorescent trim pattern required by the standard.

Does Your Bid Comply With All Aspects of This Section? Yes _____ No _____

Wristlet:

The coat will feature a knitted cuff of inherently non-flammable material to ensure that the wearer's wrist is fully protected when the arm is in the raised position.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Collar:

The coat collar must have a minimum height of 4" at the lowest point. The collar composite must have the same radiant heat transmission resistance as the body of the coat. A closure strap to ensure complete protection of the throat must be provided.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Thread:

All thread used in the construction of the coat will be of equivalent high temperature resistance as the outer shell material.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____



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Washing:

The coat must be fully machine washable @40 Degrees C using domestic detergents. Washing instructions, care, maintenance and retirement information must be provided as per the requirements of the Standard.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Labeling:

The coat must be clearly labeled with the manufacturer's name, address, batch number and date of manufacture.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

SECTION 2 PANTS

Weight:

Pant size to fit a firefighter height – 5' 10", waist 36" and inside leg of 29" should not weigh more than 4.0 lbs.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Overlap:

Pants must have sufficient crotch rise to ensure the minimum overlap protection requirement of the standard when worn with either a 30 in. length or a 34 in. length coat. Optional thermal extensions must be available for special measures and long trunk dimension wearers.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Pant Closure:

The pants must have a heavy duty zipper fly, overlaid with a flap closure secured by hook and loop tape of minimum width 1 in. (25cm) and a high temperature plastic snap lock buckle. No metal hooks and dees are permitted.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____



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Cargo Pockets:

The pants will incorporate 2 full bellows pockets approx. 8.5 ins. By 9in. Drain holes must be provided to ensure adequate drainage. The pocket flap will be a minimum of 3.5 ins. (8.75cm) the flap fastening will be by vertical hook and pile and have a fabric tab for easy opening with gloved hand. Pockets must have internal puncture resistant reinforcement.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Suspenders:

The pants must have Standard eight point field replaceable suspenders featuring heavy duty elastic with low profile hook and pile release attachment to the front and rear. Optional H back heavy duty padded suspenders must be available on customer request.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Waist Adjustment:

There will be an elasticized means of extra size adjustment incorporated into the waistband of the pants with pull forward straps provided for easy adjustment.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Washing:

The pants must be fully machine washable @ 40 Degrees C using normal detergents.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Thread:

All Thread used in the construction of the pants will be of equivalent high temperature resistance as the outer shell materials.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____



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Labeling:

The pants must be clearly labeled with the manufacturer's name and address, batch number and date of manufacture, the label must be indelibly printed so as to last the expected life of the clothing.

Does Your Bid Comply With All Aspects Of This Section? **Yes** _____ **No** _____

Knee Re-enforcement:

Internal removable knee pads made from para-aramid felt encased in a waterproof cover must be provided to enhance thermal insulation. An additional layer of abrasion and puncture resistant silicon Kevlar material must cover the exterior knee area for added durability.

Does Your Bid Comply With All Aspects Of This Section? **Yes** _____ **No** _____

Reflective Material:

The reflective material used shall be 3in (75mm) wide 3M quality fire resistant retro-reflective fluorescent triple trim tape in Lime Yellow or Red. Tape must be attached with double rows of stitching along each edge.

Does Your Bid Comply With All Aspects Of This Section? **Yes** _____ **No** _____

SECTION 3- MATERIALS: COAT AND PANTS

Outer Shell Material must be:

- | | | |
|---|---|---|
| <p>A. Nomex Titan 87% Meta Aramid 11% Para Aramid / 2% P140 6.5oz.Sq.yd Ripstop Plain Weave</p> | <p>B. Basofil 60% Kevlar 40% Basofil 7.5 oz.Sq.yd Ripstop Plain Weave</p> | <p>C. PBI Gemini (Matrix Tech.) 60% Kevlar 40% Nomex 7.5oz.Sq.Yd Ripstop Plain Weave.</p> |
| <p>D. Nomex Advance 60% Kevlar 40% Nomex 7.0 oz. Sq.yd Ripstop Plain Weave</p> | <p>E. Nomex Advance Ultra 60% Kevlar 20 % Nomex / 20% PBO 7.5 oz. Sq.yd Ripstop Plain Weave</p> | |

** Please select fabric combination **



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The Moisture barrier must be:

Microporous PTFE Gore Crosstech Type 2C
PU Type Moisture Barriers are not acceptable.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

The Thermal Barrier must be:

Inherently non-flammable Iso-Air Non Woven high loft felt, pattern stitched to a face fabric of 50% Nomex and 50% Viscose.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

SECTION 4- CERTIFICATION

Standards:

A. The clothing offered shall pass the requirements o NFPA 1971 and or CGSB 155.1(Latest Revision) but the performance required will be increased in the following areas.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

B. TPP – The clothing shall exhibit a TPP rating of not less than 44 after 5 wash dry cycles as per AATCC test method 135-1987.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

C. THL – The clothing thermal composite shall exhibit a Total Heat Loss of no less than 205 w/sq.m

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____



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Bid Submission:

All bids submitted to this specification must be accompanied by a test certificate confirming that the clothing offered is in performance with this specification. This test certificate shall be issued by Underwriters Laboratory. The cost of this certificate shall be borne by the bidder. Bids will not be considered unless the clothing offered passes the requirements of the specification.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Product Liability Insurance:

The manufacturer will carry product liability insurance for the product offered in this specification to a minimum value of \$7.5 Million per incident.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Quality Standards:

The Manufacturer will be assessed to ISO 9001 PART I AND II, quality control standard.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Delivery:

The successful bidder will be able to offer delivery within 90 days of receipt of all sizes. Any future orders placed will require delivery within 90 days.

Repair Facilities:

Successful bidder will offer a repair service for this clothing, undertaking to repair clothing damaged for any reason within 10 working days of receipt of the garment.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____



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PERCENTAGE SPECIFICATION COMPLIANCE CALCULATIONS

| | | | |
|--|---|--|---|
| | Total Number "Yes/No" Questions | | |
| | Total Number of Yes Answers | | |
| | Total Number of No Answers | | |
| | | | |
| | % Specification Compliance: $[(\text{Total Yes Answers}) \div (\text{Total Answers})] \times 100\%$ | | % |
| | | | |
| Each "No" answer requires a full written explanation. Each "Yes/No" question not checked where provided will be considered a "No" answer. | | | |