

City of Weslaco

"The City on the Grow"



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CITY OF WESLACO

Request for Sealed Bids

The City of Weslaco hereby requests sealed bids for the purchase of the following:

Fire Dept. Protective Bunker Gear

Sealed bids addressed to Homer Rhodes, Purchasing Division, will be accepted at the Weslaco City Hall Purchasing Division, 255 S. Kansas, Weslaco, Texas 78596, until **3:00 p.m. on March 14, 2011** at which time they will be opened and read aloud. Please mark envelope, "**Sealed Bid - Fire Department Protective Bunker Gear, Bid No. 2010-11-07.**"

Potential Bidders/Respondents are advised that the bidding documents can be downloaded from the City of Weslaco web page address: www.weslacotx.gov, and may also be secured at the Weslaco City Hall Purchasing Division, 255 S. Kansas, Weslaco, Texas 78596, or by calling 956-447-2240. Be advised that if your company is contemplating on bidding for this project you must contact the Purchasing Division, so that any changes/additions via addendum form can be forwarded to your company. (Please include your company name, address, telephone, fax, and e-mail address, as well as contact person).

The City of Weslaco reserves the right to accept or reject any or all bids to waive any informalities in the bidding or to accept the bid to be the best and most advantageous to the City and to hold bids for a period of forty-five (45) days from the date of the bid opening without taking action for the purpose of reviewing the bids and investigation of bidder's qualifications prior to bid purchase award. Bids submitted past the aforementioned date and time will not be accepted.

City of Weslaco
/s/ Homer Rhodes,
Purchasing Division

VENDOR'S NOTICE OF INTENT TO SUBMIT A BID

If you intend to submit a bid for **Fire Dept. Protective Bunker Gear** with the City of Weslaco as outlined in the specifications, please indicate your intention by signing, dating, and returning this form to the address below prior to March 7, 2011 so that you may receive any addendums to the specifications should the need arise.

**Homer Rhodes
Purchasing Division
City of Weslaco
255 S. Kansas
Weslaco, Texas 78596
Phone :(956) 447-2240
Fax: (956) 969-8452**

Name: _____ (print)	Signature: _____
Title: _____	Company/Agency: _____
Mailing Address: _____	City/State/Zip: _____
Phone: _____	Fax: _____
Email address: _____	

Bid No.: 2010-11-07

City of Weslaco

Fire Department Protective Bunker Gear

Instructions to Bidders

1. The following are minimum specifications intended to govern Fire Department Bunker Gear requested. Prospective vendors are to fill the attached Bid Form and submit with their Bid.
2. Sealed bids addressed to the City of Weslaco will be received up until **March 14, 2011, at 3:00 p.m.** at the Weslaco City Hall Purchasing Division, 255 S. Kansas, Weslaco, Texas 78596, at which time they will be opened and read aloud.
3. Bids shall be submitted in a sealed envelope upon the blank forms of the bid package attached hereto, and marked in the upper left hand corner with the name of the bidder and the words, "**Fire Department Bunker Gear Bid No. 2010-11-07**". Each bid must be completely filled out. Bids must be filed with the City of Weslaco before opening day and hour. **No late bids will be accepted.** They will be returned to bidder unopened (if properly identified).
4. The successful vendor will agree to supply material that meet the specifications outlined in the attached Bunker Gear Specification Sheet. The successful vendor and the City of Weslaco will enter into a one (1) year agreement with purchases as needed. In the event that any of the conditions or provisions are not met or your service is unsatisfactory, the City of Weslaco following forty-five (45) days written notice may terminate the agreement. Bids will be analyzed on TOTAL dollar value not item per item and what is most advantageous to the City.
5. **Quantity subject to change.** Quantities shown are approximate and based on previous years records. It is specifically understood that these quantities may be increased or decreased without adjustment to the unit price.
6. All prices must be F.O.B. Weslaco Fire Dept. 901 N. Airport Dr. Weslaco, Texas 78596 and include all cost of packaging and delivery.
7. The vendor agrees to indemnify and save harmless the City, the Purchasing Division, and assistants from all suits and actions of every nature and description brought against for or on account of the use of patented appliances, products or processes, and vendor shall pay all royalties and charges which are legal and equitable. Evidence of such payment or satisfaction shall be submitted upon request of the Purchasing Division, as a necessary requirement in connection with the final estimate for payment in which such patented appliance, products or processes are used.
8. Bids **MUST** give full name and address of bidder, and be manually signed. Failure to do so will disqualify your bid. Person signing the bid must show title or **AUTHORITY TO BIND HIS/HER FIRM IN A CONTRACT.** Firm name and authorized signature must appear on each page that calls for this information.
9. Bids **CANNOT** be altered or amended after opening time. Alterations made before opening time must be initialed by respondent guaranteeing authenticity. No bids may be withdrawn after opening time without acceptable reason in writing and only after approval by the City of Weslaco.
10. Respondent shall carefully examine the Bid forms, requirements/specifications, and instructions to respondents. Should the respondent find discrepancies in, or omissions from bid forms, specifications, or other document, or should he/she be in doubt as to their meaning, he/she should at once notify the Purchasing Division (Weslaco City Hall, Purchasing Division at 956-447-2240, and obtain clarification by addendum prior to submitting any bid.
11. The City of Weslaco will execute payment by mail within thirty (30) days in strict accordance with the State of Texas Pay Law after the Fire Department Bunker Gear have been received and found to meet City of Weslaco specifications. No other method of payment will be considered. A tax exempt certificate will be provided upon request.

12. To avoid delay in payments and speed-up handling of invoices, all orders shall be delivered completed. It is the City's policy not to work with back orders.
13. The City of Weslaco reserves the right to refuse and reject any or all bids and to waive any or all informalities or technicalities or to accept the bid to the best and most advantageous to the City and to hold bids for a period of forty-five (45) days without taking action. Bids submitted past the aforementioned date and time will not be accepted.
14. Specify number of days required to deliver the Fire Department Bunker Gear after receiving order must be stated in bid. Failure to do so, will obligate respondent to complete delivery within THREE (3) weeks from order date.
15. When delay can be foreseen, vendor shall give prior notice to the City of Weslaco. Vendor must keep the City of Weslaco advised at all times of status of delivery. Default in promised delivery (without acceptable reasons) or failure to meet specifications, authorizes the City of Weslaco to purchase such items elsewhere and charge increase in cost and handling to defaulting vendor.
16. Acceptable reasons for delay delivery are as follows: Acts of God, (floods, tornadoes, hurricanes, etc.) acts of government, (fire, strikes, war). Actions beyond the control of successful bidder.

General Specifications for Protective Jacket and Trousers
For structural fire fighting
General Specifications for G-XTREME or equivalent

SCOPE

This specification details designs and materials criteria to afford protection to the upper and lower body, excluding head, hands, feet, against adverse environmental effects during structural firefighting. All material and construction will meet or exceed NFPA Standard #1971 (2000 revision) and OSHA for structural fire fighters protective clothing.

Comply Exception

OUTER SHELL MATERIAL – JACKETS AND TROUSERS

The outer shell shall be constructed of “Advance” Kevlar/Nomex blend material with an approximate weight of 7 oz. per square yard in a rip stop weave. The shell material must be treated with SST™ (SUPER SHELLTITE) which is a durable water-repellent finish that also enhances abrasion resistance. Color of garments to be specified. Bids offering this shell material without the SST™ will not be considered.

Comply Exception

THERMAL INSULATING LINER – JACKET AND TROUSERS

The thermal liner shall be constructed of “Aralite”; one layer of 4 oz. per square yard aramid blend needle-punch, quilt stitched to a 3 oz. per square yard aramid face cloth, teal in color. A 7 inch by 9 inch pocket, constructed of self material and lined with a moisture barrier material, shall be affixed to the inside of the jacket thermal liner on the left side by means of a lock stitch. The thermal liner shall be bound around its perimeter with a Bias-Cut Neoprene coated cotton/polyester binding. The thermal liner shall be attached to the moisture barrier (as described under the “Separating Liner System” section). Further mention of “Thermal Liner” in this specification shall refer to this section.

Comply Exception

MOISTURE BARRIER – JACKETS AND TROUSERS

The “GORE RT7100” moisture barrier shall be GORE PTFE on a non-woven Nomex substrate with an approximate weight of 5.0 oz. per square yard. The GORE PTFE Type 3b moisture barrier product incorporates GORE PTFE technology, without enhanced bicomponent technology, and shall be laminated to a non-woven substrate. This alternative product is intended as a thermally stable alternate to NFPA compliant polyurethane-based moisture barriers. The moisture barrier shall be bound along the edges with Bias-cut Neoprene-coated cotton/polyester binding. Further mention of the “Specified Moisture Barrier” in this specification shall refer to this section.

Comply Exception

SEALED MOISTURE BARRIER SEAMS

All moisture barrier seams shall be sealed with a minimum 1-inch wide thermal sealing tape. One side of the tape shall be coated with a heat activated glue adhesive. The adhesive side of the tape shall be oriented toward the moisture barrier seam. The adhesive shall be activated by heat and the sealing tape shall be applied to the moisture barrier seam by means of pressure exerted by rollers for that purpose.

Comply Exception

METHOD OF THERMAL LINER/MOISTURE BARRIER ATTACHMENT FOR JACKETS AND TROUSERS

The thermal liner and moisture barrier shall be completely removable from the jacket shell. Two strips of 5/8-inch wide flame resistant hook and pile fastener tape shall secure the thermal liner/moisture barrier to the outer shell along the length of the neck liner under the collar (see collar section). The remainder of the thermal liner/moisture barrier shall be secured with a minimum of five snap fasteners appropriately spaced on each jacket facing for the 32-inch length jacket and four snap fasteners at each sleeve end.

The thermal liner and moisture barrier shall be completely removable from the trouser shell. Nine snap fasteners shall be spaced along the waistband to secure the thermal liner/moisture barrier to the shell. The legs of the thermal liner/moisture barrier shall be secured to the shell by means of two snap fasteners per leg.

Comply Exception

THERMAL PROTECTIVE PERFORMANCE

The assembled garment, consisting of an outer shell, moisture barrier, and thermal liner, shall exhibit a TTP (Thermal Protective Performance) rating of not less than 35.

Comply Exception

JACKET CONSTRUCTION

BODY

The body of the shell and liner system shall be constructed of three separate panels consisting of two front panels and one back panel. The body panels shall be shaped so as to provide a tailored fit thereby enhancing body movement and shall be joined together by double stitching with Nomex thread.

Comply Exception

SEPARATING LINER SYSTEM (JKT)

The combined moisture barrier and thermal liner shall be completely removable for the jacket. The thermal liner and moisture barrier layers of the liner system shall be constructed in such a way as to allow the layers to separate for improved air flow, drying and interior service and replacement. The thermal liner and moisture barrier layers shall be stitched together at the sleeve cuff ends and hem of the rear body panels only. The leading edges and hem of the left and right front body panels of the thermal liner and moisture barrier layers shall fasten together with snap fasteners. The snap fasteners shall be evenly spaced along the opening edge of the layers and set in bias-cut reinforcement fabric. The neck area of the liner system shall attach up inside the outer shell collar with two strips of 5/8 inch wide flame resistant hook and pile fastener tape on the front and rear of the collar. Pile fastener tape

installed along the neck of the thermal liner will secure to hook fastener tape installed along the front edge of the top collar. Hook fastener tape installed along the neck of the moisture barrier layer of the liner system will extend upward into the underside of the collar and attach to the pile fastener tape installed along the full length of the inside back layer of the collar.

The combined moisture barrier and thermal liner shall be secured with a minimum of five snap fasteners evenly spaced on each jacket facing for 32 inch length jackets (six snaps for 35 inch length jackets) and four snap tab fasteners at each sleeve end.

The outside perimeter of the liner moisture barrier and thermal liner layers shall be bound separately along the edges with a Bias-Cut Neoprene coated cotton/polyester binding for a finished appearance that prevents fraying and wicking of contaminants.

Comply

Exception

SLEEVES

The sleeves shall be of two-piece construction, having an upper and a lower sleeve. The sleeve seams shall be of a double needle seam construction and shall be contoured to follow the natural flex of the arm at rest. Both the under and upper sleeve shall be graded in proportion to the chest size. For unrestricted movement, on the underside of each sleeve there shall be two outward facing pleats located on the front and back portion of the sleeve on the shell. On the moisture barrier and thermal liner, the system will consist of two darts, rather than pleats, to allow added length in the undersleeve. The moisture barrier darts will be seam sealed to assure liquid resistance integrity.

The pleats shall expand in response to upper arm movement, and shall fold in on themselves when the arms are at rest. This expansion shall allow for greater multi-directional mobility and flexibility in the shoulder and arm areas, with little restriction or coat rise.

Comply

Exception

LINER ELBOW THERMAL ENHANCEMENT

An additional layer of thermal liner material shall be sewn to the elbow area of the liner system for added protection at contact points and increased thermal insulation. The elbow thermal enhancement layers shall be sandwiched between the thermal liner and moisture barrier layers of the liner system and shall be stitched to the thermal liner layer only.

SLEEVE CUFF REINFORCEMENTS

The sleeve cuffs shall be reinforced with grey suede leather. The cuff reinforcements shall not be less than 2 inches in width and folded in half, approximately one half outside the sleeve end for greater strength and abrasion resistance. The cuff reinforcement shall be double stitched to the sleeve end.

Comply

Exception

WRISTLETS/SLEEVE WELLS

Each jacket shall be equipped with Nomex hand and wrist guards (over the hand) not less than 7 inches in length and of double thickness. A separate thumbhole with an approximate diameter of 2 inches shall be recessed approximately 1 inch from the leading edge.

The wristlet shall be sewn to the end of the liner sleeves. Flame resistant neoprene coated cotton/polyester moisture barrier material shall be sewn to the inside of the sleeve shell approximately 5 inches from the sleeve end and extending toward the cuff forming the sleeve well. The neoprene sleeve well shall form a cuff end that shall be

elasticized providing a snug fit at the wrist and covering the knit wristlet. This sleeve well configuration serves to prevent water and other hazardous elements from entering the sleeves when the arms are raised and reduces the possibility of steam burns around the wrist. The neoprene moisture barrier material shall also line the inside of the sleeve shell from the cuff to a point approximately 5 inches back, where it joins the sleeve well and is double stitched to the shell. Four Nomex snap tabs will be sewn into the juncture of the sleeve well and wristlet. The tabs will be spaced equidistant from each other and shall be fitted with female snap fasteners to accommodate corresponding male snaps in the liner sleeves. This configuration will ensure there is no interruption in protection between the sleeve liner and wristlet.

Comply

Exception

COLLAR & FREE HANGING THROAT TAB

The collar shall consist of four-layer construction and be of two-piece design. The outer layers shall consist of outer shell material, with two-layers of specified moisture barrier sandwiched between (see Moisture Barrier section). The rear inside ply of moisture barrier shall be sewn to the collar's back layer of outer shell at the edges only. The forward inside ply of moisture barrier shall be sewn to the inside of the collar at the edges only. The multi-layered configuration shall provide protection from water and other hazardous elements. The collar shall be of two piece design with the left and right halves of all component materials joined in the center by stitching, thereby permitting the collar to retain its proper shape and roll. The collar shall be 4 inches high and graded to size. The leading edges of the collar shall extend up evenly from the leading edges of the jacket front body panels so that no gap occurs at the throat area. The collar's back layers of outershell moisture barrier shall be joined to the body panels with two rows of stitching. Inside the collar, above the rear seam where it is joined to the shell shall be a strip of 5/8-inch wide FR hook fastener tape running the full length of the collar. The collar's front layers of moisture barrier and outershell shall have an additional strip of 5/8 inch wide hook fastener tape stitched to the inside lower edge and running the full length of the collar. These two inside strips of 5/8 inch wide FR hook fastener tape sewn to the underside of the collar shall engage corresponding pieces of flame resistant pile fastener tape at the front and back neck area of the liner system.

The throat tab shall be a scoop type design and constructed of two plies of outer shell material with two center plies of moisture barrier material. The throat tab shall measure not less than 4 inches wide at the center tapering to 2 inches at each end with a total length of approximately 9 inches. The throat tab will be attached to the right side of the collar by a 1 inch wide by 1.5 inch piece of Nomex twill webbing. The throat tab shall be secured in the closed and stowed position with the flame resistant hook and pile fastener tape. The flame resistant hook and pile fastener tape shall be oriented to prevent exposure to the environment when the throat tab is in the closed position. Two 2 inch by 3 inch pieces of FR pile fastener tape shall be sewn vertically to the inside of each end of the throat tab. Corresponding pieces of FR hook fastener tape measuring 1 inches by 3 inches shall be sewn horizontally to the leading outside edge of the collar on each side, for attachment and adjustment when in the closed position and wearing a breathing apparatus mask. In order to provide a means of storage for the throat tab when not in use, a 1 inch by two inch piece of FR hook fastener tape shall be sewn horizontally to the inside of the throat tab

immediately under the 2 inch by 3 inch pieces of FR pile fastener tape. The collar closure strap shall fold in half for storage with the FR pile fastener tape engaging the FR hook fastener tape. An NFPA compliant fabric hanger loop shall be sewn to the inside of the liner at the neckline.

Comply Exception

LINER SHOULDER AND UPPER BACK THERMAL ENHANCMENT

An additional layer of thermal liner material shall be used to increase thermal insulation in the upper back, front and shoulder area of the liner system. This thermal enhancement layer shall drape over the top of each

shoulder extending from the collar to the sleeve/shoulder seam, down the front approximately 5 inches and from the juncture of the collar down the back to a dept of 7 ½ inches. The upper back, front and shoulder thermal enhancement layers shall be sandwiched between the thermal liner and moisture barrier layers of the liner system and shall be stitched to the thermal liner layer only.

Comply Exception

BACK

The jackets shall include inverted pleats to afford enhanced mobility and freedom of movement in addition to that provided by the sleeves. The outer shell shall have two inverted pleats (one each side) installed at the juncture of the front and back body panels. The inverted pleats shall begin at the top of each shoulder and extend vertically down the sides of the jacket to the hem. Maximum expansion of the pleats shall occur at the shoulder area and taper toward the hem.

The liner system shall be designed with darts in both the thermal liner and moisture barrier layers corresponding to the added length in the shell provided by the Back pleats. The darts are positioned at the shoulder blades of the liner, outside of the SCBA straps, and work together with the outer shell pleats in the back and sleeves providing maximum expansion.

Comply Exception

JACKET FRONT

The jacket front shall incorporate separate facings to ensure there is no interruption in thermal or moisture protection in the front closure area. The facings shall measure 2 ½ inches wide, extend from collar to hem, and be double stitched to the underside of the outer shell at the leading edges of the front body panels. A Breathable moisture barrier material shall be sewn to the jacket facing and configured such that it is sandwiched between the jacket facing and the inside of the respective body panel. The breathable film side shall face inward to protect it. The thermal liner and moisture barrier assembly shall be attached to the jacket facing by means of snap fasteners.

Comply Exception

STORM FLAP

A rectangular storm flap measuring 3 ¼ inches wide by 23 inches long shall be centered over the left and right body panels to ensure there is no interruption in thermal or moisture protection in the front of the jacket. The outside storm flap shall be constructed of two piles of outer shell material with a center ply of breathable moisture barrier

material. The outside storm flap shall be double stitched to the right side body panel and shall be reinforced at the top and bottom with bartacks.

___ Comply ___ Exception

STORM FLAP AND JACKET FRONT CLOSURE SYSTEM

The jacket shall be closed by means of (zipper and hook & pile tape) a heavy duty high-temp polymer zipper on the jacket fronts and flame resistant hook and pile fastener tape on the storm flap. The teeth of the zipper shall be mounted on Nomex cloth and shall be sewn into the respective jacket facings. The storm flap shall close over the left and right jacket body panels and shall be secured with flame resistant hook and pile fastener tape. A 1 ½ inch by 23 inch piece of FR pile fastener tape shall be installed along the leading edge of the storm flap on the

underside with four rows of stitching. A corresponding 1 ½ inch by 23 inch piece of FR hook fastener tape shall be sewn with four rows of stitching to the front body panel and positioned to engage the pile fastener tape when the storm flap is closed over the front of the jacket.

___ Comply ___ Exception

CARGO/ HANDWARMER EXPANSION (BELLOWS) POCKETS

Each jacket front body panel shall have a 2 inch deep by 8 inch wide by 8 inch high expansion pocket double stitched to it and shall be located such that the bottom of the pockets are at the bottom of the jacket for full functionality when used with an SCBA. Retroreflective trim shall run over the bottom of the pockets so as no to interrupt the trim stripe. Two rust resistant metal drain eyelets shall be installed in the bottom of each expansion pocket to facilitate drainage of water. The lower half of the pocket shall be reinforced with an extra layer of outer shell material on the inside. The pocket flaps shall be rectangular in shape, constructed of two layers of outer shell material and shall measure 3 inches deeper than the pocket expansion and ½ inch wider than the pocket. The upper pocket corners and pocket flaps shall be reinforced with bartacks. The pocket flaps shall be closed by means of flame resistant hook and pile fastener tape. Two pieces of ½ inch by 3 inch FR hook fastener tape shall be installed vertically on the inside of each pocket flap (one piece on each end). Two corresponding pieces of 1 ½ inch by 3 inch FR fastener tape shall be installed horizontally on the outside of each pocket near the top (one piece on each end) and positioned to engage the hook fastener tape.

Additionally, a separate hand warmer pocket compartment will be provided under the expandable cargo pocket. This compartment will be accessed from the rear of the pocket and shall be lined with Nomex Fleece for warmth and comfort.

___ Comply ___ Exception

RADIO POCKET

Each jacket shall have a pocket designed for the storage of a portable radio. This pocket shall be of box type construction, double stitched to the coat, and shall have one drainage eyelet in the bottom of the pocket. The pocket flap shall be constructed of two layers of outer shell material measuring approximately 5 inches deep and ¼ inch wider than the pocket. The pocket flap shall be closed by means of flame resistant hook and pile fastener tape. A 1 ½ inch by 3 inch piece of FR hook fastener tape shall be installed vertically on the inside of the pocket flap beginning at the center of the bottom of the flap. A 1 ½ inch by 3 inch piece of FR pile fastener tape shall be installed horizontally on the outside of the pocket near the top center and positioned to engage the hook fastener tape. In addition, the entire inside of the pocket shall be lined with neoprene coated cotton/ polyester moisture barrier material to ensure that the radio is protected from the elements. The moisture barrier shall also be

sandwiched between the two layers of outer shell material in the pocket flap for added protection. The radio pocket shall measure approximately 3 inches deep by 3.5 inches wide by 7 inches high and shall be installed on the left chest.

Comply Exception

MICROPHONE STRAP

A strap shall be constructed to hold a microphone for a portable radio. It shall be sewn to the coat at the ends only. The microphone strap shall be mounted above the radio pocket and shall be constructed of double layer outer shell material.

Comply Exception

RETROREFLECTIVE FLUORESCENT TRIM

The retroreflective fluorescent trim shall be lime/yellow Triple Trim (L/Y borders with silver center). Each jacket shall have an adequate amount of retroreflective fluorescent trim affixed to the outside of the outer shell to meet the requirements of NFPA #1971 (2000 edition) and OSHA. The trim shall be in the following widths and shall be NYC style; three inch wide stripes-around the lower portion of the body of the jacket, around the back and chest area approximately three inches below the armpit, around each sleeve below the elbow, around each sleeve above the elbow.

Comply Exception

REINFORCED TRIM STITCHING

The trim stitching shall be reinforced with a strip of 3/32-inch wide flame resistant cording material. The cording shall be sewn to the top surface of the trim at the edges during installation of the retroreflective fluorescent trim on the garment. The cording provides a bed for the stitching and affords extra protection to the stitching from abrasion. This action will help to significantly reduce trim separation from the garment due to stitching failure from abrasion.

Comply Exception

DRAG RESCUE DEVICE (DRD)

A Firefighter Drag Rescue Device shall be installed in each jacket. Two ends of 1.5-inch wide Kevlar strap will be sewn together to form a continuous loop. The strap will be installed in the jacket between the liner system and outer shell such that when properly installed will loop around each arm. The strap will be accessed through a portal between the shoulders on the upper back where it is secured in place by a Velcro strap. The access port will be covered by an outside flap with beveled corners designed to fit between the shoulder straps of an SCBA. The flap will a compliant reflective patch sewn to the outside to clearly identify the feature as DRD (Drag Rescue Device).

Comply Exception

SIZING

The jacket length shall be measured from the juncture of the collar and back panels to the hem of the jacket and shall measure 32 inches long.

The jacket shall be available in male and female patterns in even size chest measurements of two-inch increments, and shall range from a small size of 30 to a large size of 60. Generalized sizing, such as small, medium, large, etc., will not be considered acceptable.

Comply

Exception

Lettering

Coats shall have 3" lime yellow Scotchlite (or equivalent) letters sewn across the shoulders to read "Weslaco F. D."

TROUSER CONSTRUCTION

BODY

The body of the shell shall be constructed of four separate body panels consisting of two front panels and two back panels. The body panels shall be shaped so as to provide a tailored fit, thereby enhancing body movement, and shall be joined together by double stitching with Nomex thread. The body panels and seam lengths shall be graded to size to assure accurate fit in a broad range of sizes.

The front body panels will be wider than the rear body panels to provide more fullness over the knee area. This is accomplished by rolling the side leg seams (inside and outside) to the rear of the pant leg beginning at the knee. The slight taper will prevent premature wear of the side seams by pushing them back and away from the primary high abrasion areas encountered on the sides of the lower legs.

Comply

Exception

SEPARATING LINER SYSTEM (TROUSER)

The thermal liner and moisture barrier layers of the trouser liner system shall be constructed in such a way as to allow the layers to separate for complete interior inspection, service and replacement. The thermal liner and moisture barrier layers shall be stitched together at the front fly only for security and prevention of inadvertent use of one layer without the other. The liner system shall have a reinforced of black Nomex Twill sewn to the bottom of the fly opening. This reinforcement will serve to prevent the liner from tearing in that area from the constant donning and doffing of the trousers.

The thermal liner and moisture barrier layers shall fasten together at the waist with snap fasteners and at the cuffs with full circumference FR hook & loop fastener tape and two snap fasteners. The snap fasteners shall be evenly spaced along the openings and set in bias-cut Neoprene reinforcement fabric. The waist and cuff perimeters of the moisture barrier and thermal liner layers shall be bound along the edges with a neoprene-coated cotton/polyester binding for a finished appearance that prevents wicking of contaminants.

Comply

Exception

ELASTICIZED WAISTBAND

The trouser design facilitates the transfer of the weight of the trouser to the hips instead of the shoulders and suspenders. The two rear outer-shell body panels, beginning at the trouser side seams, shall incorporate an elasticized waistband. The rear elasticized waistband shall be integral to the shell of the pant and the elasticized portion shall be covered in an aramid fabric.

The waist area of the trousers shall incorporate an independent stretch waistband on the inside with a separate piece of black aramid outer shell material cut on the bias (diagonally) measuring not less than two inches in width. Neoprene coated cotton/polyester shall be sewn to the back of the waistband as a reinforcement. The top edge of the waistband reinforcement shall be double stitched to the outer shell at the top of the trousers. The lower edge of the waistband shall be serged and unattached to the shell to accept the thermal liner and moisture barrier. The top of the thermal liner and moisture barrier shall be secured to the underside of the waistband reinforcement so as to be sandwiched between the waistband reinforcement and outer shell to reduce the possibility of liner detachment while donning and to avoid pass through of snaps from the outer shell to inner liner.

___ Comply

___ Exception

EXTERNAL/INTERNAL FLY FLAP

The trousers will have a vertical outside fly flap constructed of two layers of outer shell material, with a layer of moisture barrier material sandwiched between. The fly flap shall be double stitched to the left front body panel and shall measure approximately 2 ½ inches wide by 10 inches long and reinforced with bartacks at the base. An internal fly flap constructed of one layer of outer shell material, thermal liner and specified moisture barrier, measuring approximately 2 inches wide by 10 inches long, shall be sewn to the leading edge of the right front body panel. The inside of the right front body panel shall be thermally enhanced directly under the outside fly with a layer of moisture barrier and thermal liner material.

The underside of the outside fly flap shall have a 2 inch wide piece of loop fastener tape quadruple stitched along the full length and through the shell material only; stitching shall not penetrate the moisture barrier insert between the two layers to insure greater thermal protection and reduced water penetration. A corresponding strip of 2 inch wide by 9-inch long hook fastener tape shall be quadruple stitched to the outside right front body panel securing the fly in a closed position.

Appropriate male and female snap fastener halves shall be installed at the leading edge of the waistband for the purpose of further securing the trousers in the closed position.

___ Comply

___ Exception

BELT

Each trouser shall include a 2" wide black Kevlar belt with an adjustable hi-temp thermoplastic buckle serving as the exterior primary positive locking closure. Sizing adjustments shall be provided by a self-locking 2" thermoplastic buckle; this buckle shall also provide a quick-release mechanism for donning and doffing. The belt shall be attached to the two front body panels of the trouser beginning at the side seams. The belt shall run through tunnels constructed of black 7.5oz Nomex outer shell material protecting it from damage. The tunnels will begin at the side seams and terminate at the front of the trouser exposing the buckle. A single belt loop constructed of a double layer of black 7.5oz Nomex measuring approximately ½ inch by 3 inches shall be attached to the topside of the right side tunnel. The belt loop will be located approximately 2 inches from the tunnel opening for storage of the belt tab.

Comply

Exception

PADDED RIP-CORD SUSPENDERS & ATTACHMENT

On the inside waistband shall be attachments for the standard "H" style "Padded Rip-Cord" suspenders. There will be four attachments total – 2 front, 2 back. The suspender attachments shall be constructed of a double layer of black Nomex twill measuring approximately ½ inch wide by 3- inches long. They shall be sewn in a horizontal belt loop to capture the suspender ends.

A pair of "H" style "Padded Rip-Cord" suspenders shall be specially configured for use with the trousers. The main body of the suspenders shall be constructed of 2 inch wide black strap webbing. The suspenders shall run over each shoulder to a point approximately shoulder blade high on the back, where they shall be joined by a 2 inch wide horizontal piece of webbing measuring approximately 8-inches long, forming the "H". This shall prevent the suspenders from slipping off the shoulders. The shoulder area of the suspenders will be padded for comfort.

The rear ends of the suspenders will be sewn to 2-inch wide elasticized webbing extensions measuring approximately 8-inches in length and terminating with thermoplastic loops. The forward ends of the suspender straps shall be equipped with specially configured non-slip metal slides. Through the metal slides will be the 9-inch lengths of strap webbing "Rip-Cords" terminating with thermoplastic loops on each end. Pulling on the "Rip-Cords" shall allow for quick adjustment of the suspenders.

Threaded through and attached to the thermoplastic loops on the forward and rear ends of the suspenders will be black Nomex suspender attachments incorporating two snap fasteners. The Nomex suspender attachments are to be threaded through the suspender attachment loops on the inside waistband of the trousers. The Nomex suspender attachments will then fold over and attachment to themselves securing the suspender to the trousers.

Comply

Exception

SEAT

The rise of the rear trouser center back seam, from the top back of the waistband to where it intersects the inside leg seam at the crotch, shall exceed the rise at the front of the trouser by 8-inches. The longer rear center back seam provides added fullness to the seat area for extreme mobility without restriction when stepping up or crouching and will be graded to size. This feature in combination with other design elements will maintain alignment of the knee directly over the kneepads when kneeling and crawling.

Comply

Exception

EXPANSION (BELLOWS) POCKETS

An expansion pocket, measuring approximately 2 inches deep by 10 inches wide by 10 inches high shall be double stitched to the side of each leg straddling the outseam above the knee and positioned to provide accessibility. The lower half of each expansion pocket shall be reinforced with additional layer of outer shell material on the inside. Two rust resistant metal drain eyelets shall be installed on the underside of each expansion pocket to facilitate drainage of water. The pocket flaps shall be rectangular in shape, constructed of two layers of outer shell and shall measure 3 inches deeper than the pocket expansion and 1/2 inch wider than the pocket. The upper pocket corners and pocket flaps shall be reinforced with bartacks. The pocket flaps shall be closed by means of flame resistant hook and pile fastener tape. Two pieces of 1 1/2 inch by 3 inch FR hook fastener tape shall be installed vertically on the inside of each pocket flap (one piece on each end). Two corresponding pieces of 1 1/2 inch by 3 inch FR pile fastener tape shall be installed horizontally on the outside of each pocket near the top (one piece on each end) and positioned to engage the hook fastener tape.

Comply

Exception

KNEE

The outer shell of the trouser legs shall be constructed with horizontal expansion pleats in the knee area with corresponding darts in the liner to provide added fullness for increased freedom of movement and maximum flexibility. Two expansion pleats measuring approximately 1" deep, shall be installed on each sides of the legs along both the inseam and out seam in the knee area. The pleats shall be folded to open outwardly towards the side seams to insure no restriction of movement. The knee will be installed proportionate to the trouser inseam, in such a manner that it falls in an anatomically correct knee location.

The liner system shall be constructed with four darts per leg in the front of the knee. Two will be located above the knee (one on each side) and two will be located below the knee (one on each side). Each dart will be approximately 2 inches long. The darts in the liner provide a natural bend at the knee. The darts in the liner work

in conjunction with the expansion panels in the outer shell to increase freedom of movement when kneeling, crawling, climbing stairs of ladders, etc.

Comply

Exception

LINER KNEE THERMAL ENHANCEMENT

An additional layer of specified thermal liner and moisture barrier material will be sewn to the knee area of the liner system for added protection and increased thermal insulation at contact points. The knee thermal enhancement layers shall be sandwiched between the thermal liner and moisture barrier layers of the liner system and shall be stitched to the thermal liner layer only.

Comply

Exception

KNEE REINFORCEMENTS

The knee area shall be reinforced with grey suede leather. The knee reinforcement shall be slightly offset to the inside of the leg to insure proper coverage when bending, kneeling and crawling. The knee reinforcements shall measure 10 inches wide by 12 inches high and shall be double stitched to the outside of the outer shell in the knee area for greater strength and abrasion resistance.

Comply

Exception

PADDING UNDER KNEE REINFORCEMENTS

Padding for the knees shall be accomplished with one layer of neoprene coated aramid batt and one layer of quilted aramid batt. Both layers of aramid batt shall be sandwiched between the shell and the knee reinforcement layers. The neoprene shall face outward.

Comply Exception

TROUSER CUFF REINFORCEMENTS

The cuff area of the trousers shall be reinforced with grey suede leather. The cuff reinforcement shall not be less than 2 inches in width and folded in half, approximately one half inside and one half outside the end of the legs for greater strength and abrasion resistance. The cuff reinforcement shall be double stitched to the outer shell. Two Nomex snap tabs (one each side), measuring approximately 1 inch long shall be bartacked to the inside of each leg of the outer shell approximately three inches from the bottom of the trouser leg. A female snap fastener half shall be installed at the end of each tab and shall align with the male snap fastener halves installed at the bottom of the trouser thermal liner/moisture barrier. The tab mounted snap fasteners shall secure the trouser thermal liner/moisture barrier to the outer shell within three inches of the cuff.

Comply Exception

REVERSE BOOT CUT

The outer shell trouser leg cuffs will be constructed such that the back of the leg is approximately 1 inch shorter than the front. The liner will also have a reverse boot cut at the rear of the cuff and a concave cut at the front to keep the liner from hanging below the shell. This construction feature will minimize the chance of premature wear of the cuffs and injuries due to falls as a result of “walking” on the trouser cuffs.

Comply Exception

RETROREFLECTIVE FLUORESCENT TRIM

The trousers shall have a stripe of retro reflective fluorescent trim encircling each leg below the knee to comply with the requirements of NFPA #1971 (2000 revision) in 3-inch lime/yellow Triple Trim (L/Y borders with silver center).

Comply Exception

REINFORCED TRIM STITCHING

The trim stitching shall be reinforced with a strip of 3/32-inch wide flame resistant cording material. The cording shall be sewn to the top surface of the trim at the edges during installation of the retro reflective fluorescent trim on the garment. The cording provides a bed for the stitching and affords extra protection to the stitching from abrasion. This action will help to significantly reduce trim separation from the garment due to stitching failure from abrasion.

Comply Exception

SIZING

The trousers shall be available in even size waist measurements of two-inch increments and shall be available in a range of sizes from 24 to 56. The trouser inseam measurement shall be available in two-inch increments. Generalized sizing, such as small, medium, large, etc., will not be considered acceptable. Sizing specifically for woman shall also be available.

Comply Exception

THIRD PARTY TESTING AND LISTING PROGRAM

All components used in the construction of these garments shall be tested for compliance to NFPA Standard #1971 (2000 revision) by Underwriters Laboratories (UL). Underwriters Laboratories shall certify and list compliance to that standard. Such certification shall be denoted by the Underwriters Laboratories certification label.

Comply Exception

LABELS

Appropriate warning label(s) shall be permanently affixed to each garment. Additionally, the label(s) shall include the following information.

- Compliance to NFPA Standard #1971 – 2000 edition
- Underwriters Laboratories classified mark
- Manufacturer’s name
- Manufacturer’s address
- Manufacturer’s garment identification number
- Date of manufacture
- Size
- Fiber contents

Comply Exception

ISO CERTIFICATION / REGISTRATION

The protective clothing manufacturer shall be certified and registered to ISO Standard 9001 to assure a satisfactory level of quality. Indicate below whether the manufacturer is so certified and registered by checking either “Yes” or “No” in the space provided.

Comply Exception

EXCEPTIONS TO SPECIFICATIONS

Any and all exceptions to the above specifications must be clearly stated for each heading. Use additional pages for exceptions, if necessary.

BOOTS

Globe Structural Series 14" Pull-on leather boots or equivalent.

NFPA 1971 and NFPA 1992 Compliant

Meets or exceeds NFPA 1971, *Standard on Protective Ensembles for Structural Firefighting and Proximity Firefighting, 2007 Edition* and NFPA 1992, *Standard on Liquid Splash-Protective Ensembles and Clothing for Hazardous Materials Emergencies, 2005 Edition*.

Comply Exception

General Design

14" Pull-On boot, black with hi-vis yellow and silver trim, flame-resistant and waterproof leather, reinforced pull straps, liquid-resistant and breathable bootie liner, cut-resistant and thermal protective shield liner, composite safety toe, composite shank, composite penetration-resistant insole barrier, molded shin guard, flame-resistant synthetic rubber molded cup outsole and toe bumper, 3D lasting board, molded heel counter, internal fit system, cement construction, and removable molded footbeds including a second thicker pair.

Comply Exception

Leather

Heavyweight, flame-resistant and waterproof leather for durable performance. Reflective leather at the heel for added nighttime visibility. Tumbled leather in high flex areas for mobility.

Comply Exception

3M SCOTCHLITE™ Reflective Material

Flame-resistant fluorescent yellow and silver reflective material for added visibility.

Comply Exception

CROSSTECH® Footwear Fabric

A full-height bootie liner made from a package of Cambrelle®, 300g insulation, and CROSSTECH® moisture barrier provides protection unmatched by any other waterproof, breathable barrier.

Comply Exception

KEVLAR®/NOMEX® Protective Shield

A protective shield of KEVLAR® and NOMEX® fiber batting protects the CROSSTECH® moisture barrier, provides cut resistance, and adds thermal protection.

Comply Exception

3D Molded Shin Guard

Molded and padded polymer shin guard provides extra protection when you are working on a ladder.

Comply Exception

Composite Safety Toe Cap

Lighter than steel and doesn't transmit heat or cold. Exceeds NFPA standards for safety.

Comply Exception

Synthetic Rubber Contoured Cup Outsole

Molded outsole wraps onto the upper for athletic shoe performance. Flame, abrasion, oil, acid, and slip resistant compound engineered for high-traction and durability. Siping lines cut into flat areas open up when flexed to provide additional traction on water and ice. Self-cleaning lugs and omni-direction tread pattern designed for superior performance in all terrains and when working on ladders.

Comply Exception

Synthetic Rubber Toe Bumper

Made from the same rugged compound as the outsole for abrasion resistance when crawling. Cemented and stitched to the vamp.

Comply Exception

Puncture Protection

High performance penetration protection made from multiple layers of HT ceramic fabric (PEOX blended with silicates). Far more flexible than a steel plate and doesn't transmit heat or cold.

Comply Exception

Composite Shank

Lighter than steel, doesn't transmit heat or cold, and springs back to shape better.

Comply Exception

3D Composite Lasting Board

Boot uppers are lasted to a molded and contoured dual-density lasting board with a built-in flex zone in the forefoot and a torsionally stable heel.

Comply Exception

Cement Construction

Contoured outsoles are cement bonded to the bottom and sides of the upper using a 2-part cross-linking adhesive that forms a bond stronger than the materials it attaches. This attachment process is far more flexible than welted construction.

Comply Exception

Molded Heel Counter

A rugged heel counter is individually molded to fit each size perfectly.

Comply Exception

Internal Fit System

Anatomical foam insert wraps around the top and sides of the heel with an opening to fit and hold the back of the heel securely while cushioning the ankle.

_____Comply _____Exception

3D Molded Footbed

Dual-density removable footbed is contoured to cradle and cushion the bottom of the foot and to provide arch support. Built-in polymer strike pads provide extra impact protection at the heel, ball, and toe. Moisture-wicking and anti-microbial fabric top layer.

_____Comply _____Exception

Custom Fit System

A second removable footbed is provided with every pair for a custom fit. The thicker footbed provides a snugger fit.

_____Comply _____Exception

Reinforced Pull-Straps

Pull-straps are internally reinforced for added strength and to keep them upright. Straps are securely attached to the leather uppers with box and cross stitching.

_____Comply _____Exception

Sizes

Men's 5 – 12.5 (full and half sizes), 13 – 17 (full sizes only) in Medium, Wide, and X-Wide widths. Also available in a Wide Calf model in the same size range.

Women's 5 – 10 (full and half sizes) in Medium, Wide, and X-Wide widths.

_____Comply _____Exception

Resoling Service

Boots may be resoled at the factory with new outsoles.

_____Comply _____Exception

Country of Origin

Made in USA of U.S. and imported components

_____Comply _____Exception

GEAR BAGS:

Brand: Fire Brigade Model FB104 or equivalent

- 28" L X 14" T X 13" W
- 10" X 11" outside pocket
- 12" X 13" large bellowed pocket on both ends
- constructed of coated 1000 Denier Nylon

Specifications for Bunker Gear Continued

- heavy duty black webbing handles that circle bag
- all zippers heavy duty with two heavy duty sliders
- nylon stitched bags
- color red
- as per manufacture warranty

GLOVES:

Brand: Shelby Firewall #5226 or equivalent

Comply _____ Exception _____

OUTER SHELL:

Heavy weight, fire retardant, heat resistant, 3.5 to 4.0 oz., Abrasion Resistant, Multidirection Fiber Structure, Brushed Pigskin.

Comply _____ Exception _____

THERMAL LINER:

8 oz. S.E.F. Modacrylic Fleece Laminated to Breathable Porelle Protective Barrier.

Comply _____ Exception _____

PROTECTIVE BARRIER:

Porelle-Microporus Polymer Protective Barrier, Porelle is resistant to the passage of liquids and does not become water logged. The breathable barrier is combined (laminated) to the thermal liner. The barrier/thermal liner system is individually graded and produced in as many sizes as gloves and the barrier/thermal liner systems are sized proportional to human hand sizes.

Comply _____ Exception _____

WRISTLET:

Not required on # 5226 glove type

Comply _____ Exception _____

WRIST PULL:

3" x 3 1/2" Round Leather Pull, Sewn to Wristlet & Glove Body

Comply _____ Exception _____

THREAD:

Sewn with high burst Strength Kevlar (30/5) lock stitch, 8-10 stitches per inch.

Comply _____ Exception _____

HANGER LOOP:

¼" Fire Retardant, heat resistant brushed pigskin Hanger Loop

Comply _____ Exception _____

PROTECTIVE WELTS:

Heavy weight fire retardant, heat resistant, leather, Protective Welts. Thumb and forchette seams welted to protect threads and seams.

Comply _____ Exception _____

LABEL:

Label shall be permanently attached to each glove and certifies the glove meets or exceeds the requirements of the latest NFPA standards (1971, Standard on Protective Ensemble for Structural Fire Fighting, 2000 Edition). Label shall be durable and include the following information: name or designation of manufacture; model or style number, lot or serial number; size; date of certification tests; patent numbers; cleaning and care instructions. Label to be sewn to inside of glove. Glove is constructed, tested and labeled in accordance with the NFPA Standard on Protective Ensemble for Standard Fire Fighting, NFPA 1971-2000 Edition. The glove is certified by the Safety Equipment Institute (SEI).

Comply _____ Exception _____

ORIGIN:

Made in the U.S.A.

Comply _____ Exception _____

SIZES:

XS, S, M, L, XL, JUMBO

Comply _____ Exception _____

DESIGN & CONSTRUCTION:

Glove shall be gunn cut pattern with wing thumb. Lining is completely sewn S.E.F. Modacrylic, laminated to Porelle (liquid/fluid) barrier. This creates a strong one-piece liner/barrier system. All seams are sealed with a Dupont silicone sealant, which ensures that liquids do not come in contact with the hand or hand area. The on-piece lining is permanently sewn to the glove shell in the area of the fingertips and wrist.

Comply _____ Exception _____

HELMET

Brand: Cairns 1010 or equivalent

Shell:

The shell shall be of Traditional American Fire Service Style, molded in one piece to simulate a four piece crown with rib reinforcement approximating four major ribs (front/back and sides) and four minor combs. There shall be a brim section with a short front visor continuing around the sides to a large brim area.

Comply _____ Exception _____

The shell dimensions shall be 15.5" in length, 12.5" in width and a crown depth of 6.5". The shell shall have a nominal wall thickness of 0.065".

Comply _____ Exception _____

The shell shall be a compression molded, thorough coloured composite consisting of long fibred fiberglass and a high temperature resistant, flame resistant thermostat resin. The main ribs shall be reinforced with additional material to ensure toughness.

Comply _____ Exception _____

The upper surface of the brim shall have molded into the surface of the composite the traditional fire service vine scroll work.

Comply _____ Exception _____

The exterior of the molded shell shall be completely coated with a colour pigmented, high gloss luster, abrasion, high heat and chemical resistant finish coating that shall match the composite shell colour impregnation.

Comply _____ Exception _____

The shell shall not have an exterior "soft coating" that could mask damage to the shell, absorb products of combustion or other contaminants or deteriorate at a rate different than that of the other shell components.

Comply _____ Exception _____

The shell impregnation and matched finish coating shall be available in the standard colours of white, red, black and yellow. Orange and blue colour coatings shall be available over white composite shell material.

Comply _____ Exception _____

The shell shall be furnished with an embossed, formed sheet brass front piece holder which shall be attached to the shell's front main rib, positioned to support the top of a standard 6" fire department identification shield.

Comply _____ Exception _____

The shell shall have a front piece mounting bracket affixed to the centre front visor of the brim. The bracket shall provide for positioning and retention of a standard 6" fire department identification shield.

Comply _____ Exception _____

The edge of the shell shall have an edge bead of flexible, aluminum cored, grain embossed elastomer.

Comply _____ Exception _____

The shell shall have a nickel plated "D" ring and a stainless steel clip attached to the centre rear of the brim.

Comply _____ Exception _____

IMPACT LINER:

The impact liner shall be a combination of rigid cell, high temperature urethane foam attached to a flame resistant thermoplastic inner liner. The impact liner shall be modular and field removable for periodic inspection of the foam's integrity.

Comply _____ Exception _____

HEAD SUSPENSION:

The head suspension shall be three fixed 0.75" wide nylon straps mounted at six points on the impact liner to form a six way overhead strap assembly. The method of mounting the straps to the impact liner shall be by means of a tubular plastic ring, joined by an elastometric tube, locking the straps and ring into an annular groove in the impact liner.

Comply _____ Exception _____

SIZING ADJUSTMENT:

Sizing adjustment shall be by means of a ratchet adjustment system attached to the sides of the impact liner extension tabs by split thermoplastic buttons. The ratchet arms shall be two position adjustable so that the angle of the ratchet may be set to accommodate the wearer's head.

Comply _____ Exception _____

The sizing adjustment range shall be size 6 ¾ through size 8.

Comply _____ Exception _____

COMFORT LINER:

The comfort liner shall be comprised of a front and rear liner constructed of cotton sateen linings sewn to foam padded high density polyethylene headbands. The rear liner shall be attached at the sides of the impact liner and to the body of the ratchet assembly by split thermoplastic buttons. The front liner shall be attached at the sides of the impact liner by split thermoplastic buttons and located to the front of the impact liner by a section of hook and loop fastener.

Comply _____ Exception _____

The tops of the two liners shall be joined by a shoelace to allow for adjustment of fit and depth of helmet seating to the wearer's head.

Comply _____ Exception _____

CHINSTRAP:

The chin strap shall be constructed of three pieces of 0.75" wide Nomex webbing which are attached by quick release buckle system constructed of high temperature, super tough nylon on the left side of the helmet and by a die cast zinc postman's slide buckle on the right hand side.

Comply _____ Exception _____

The left hand side short chinstrap section, with a quick release buckle receiver, shall be mounted around the impact liner head suspension lock tube in the annular groove of the impact liner. The long, middle section, with the insertion portion of the quick release buckle on the left end, shall pass through the postman's slide buckle on the right side. The middle section shall be a minimum of 23" in length and the total length of the chinstrap shall be 35", at full extension, end to end.

Comply _____ Exception _____

SHELL RELEASE PROVISION:

The impact liner complete with suspension system and chinstrap assembly (retained as described above) shall be retained to the helmet shell by means of two thermoplastic retention clips mounted under the faceshield pivot hardware and by hook and pile fastener sections between the impact liner and helmet shell in the crown area.

The helmet, assembled as described, with the chinstrap properly deployed, shall provide for the helmet shell to release from the impact liner/chinstrap assembly at a load of 80 lb. + 0 lb. - 5lb.

Comply _____ Exception _____

EAR/NECK PROTECTION

Ear and neck protection shall be provided by a full cu, 19.0", 6.5" wide, 4.5 oz. per sq. yd. Nomex outer shelled, flame resistant flannel lined jumbo earlap. The earlap shall be secured to the impact liner by hook and pile sections in no less than five locations.

The ear and neck protector shall be removable without interfering with the overhead strap assembly in any way without removing any part of the helmets suspension.

Comply _____ Exception _____

FACESHIELD:

The faceshield shall be wrap-around, high pivot design, 4.5" wide, 18.0" long and 0.150" +/-0.005" thick. The lens material shall be high performance, high temperature resistant Polyarylate thermoplastic. The lens shall be scratch resistant coated on both inner and outer surfaces.

Comply _____ Exception _____

FACESHIELD HARDWARE:

The faceshield shall be mounted to the helmet shell by means of glass reinforced high temperature resistant thermoplastic pivot bracket assemblies.

Comply _____ Exception _____

RETRO-REFLECTIVE TRIM:

The helmet shall have eight tetrahedron shaped pieces of lime yellow, fluorescent, retro-reflective trim around the exterior of the crown of the helmet shell.

Comply _____ Exception _____

PERFORMANCE CRITERIA:

The helmet shall meet the requirements of NFPA 1972, US-OSHA (CFR 1920) NBSIR 1977 and all state's OSHA requirement's.

Comply _____ Exception _____

MANUFACTURER'S WARRANTY:

Helmets shall be warranted, for the life of the helmet, to be free of defects in material and workmanship when sold. The manufacturer shall replace, free of charge, any such helmets determined to be defective by the manufacturer provided the factory is notified in writing within 30 days of the date of detection of the defect.

Comply _____ Exception _____

MANUFACTURER'S SHELL GUARANTEE:

The manufacturer shall guarantee, for a period of five (5) years from the date of manufacture that any helmet shell will be replaced free of charge if it is damaged beyond use while worn during assigned, normal fireground activities. The manufacturer shall be relieved of any replacement liability under this guarantee if there has been a failure to follow the manufacturer's maintenance requirements supplied with each helmet.

Comply _____ Exception _____

NOMEX STYLE HOOD

Brand: Life Liners #TP23 or equivalent

FABRIC:

Content:	Head Outer Layer:	20/80 PBI/LenzingFR
	Head Middle Layer:	20/80 PBI/LenzingFR
	Head Inner Layer:	40/55/5 P84/LenzingFR/Kevlar
	Bib Both Layers:	40/55/5 P84/LenzingFR/Kevlar

Specifications for Bunker Gear Continued

Weight:	Head Outer Layer:	6.5 oz. sq. yd.
	Head Middle Layer:	6.5 oz. sq. yd.
	Head Inner Layer:	8.4 oz. sq. yd.
	Bib Both Layers:	8.4 oz. sq. yd.

Construction: All Layers 1 x 1 Rib Knit

Stretch: 65%

Color:	Head Outer Layer:	Tan
	Head Middle Layer:	Tan
	Head Inner Layer:	Yellow
	Bib Both Layers:	Yellow

Comply _____ Exception _____

HEAD DESIGN

Style: Separate head sewn on back and front bib.
The back of the head ends at the nape of the upper neck.
The back of bib is sewn at this point.

Layers: Three.

BIB DESIGN

Style: A two piece double layer yoke style bib is sewn to the head and forms a neck seam. The front and back bib are joined at the shoulder to form a notched shoulder seam on either side of the head

Layers: Two.

FACE OPENING

Face Opening: Sewn with ½ inch elastic

Relaxed Measurement: 5 to 5.5 inches.

Fully Stretched Measurement: Exceeds 15 inches.

CONSTRUCTION

Head Seam: All head and bib seams sewn with flat lock stitch.

Face Opening: Elastic sewn to edge with three thread overlock stitch; turned under and sewn with a two needle cover stitch.

Binding: One and a half inch binding to hem through folder with three thread cover stitch to create a ½ inch finished bound hem.

Thread: 100%Nomex.

Comply _____ Exception _____

SIZE

One size fits all.

Comply _____ Exception _____

LABELING AND USER INFORMATION

FR label, all label edges sewn to hood

Comply _____ Exception _____

CERTIFICATION

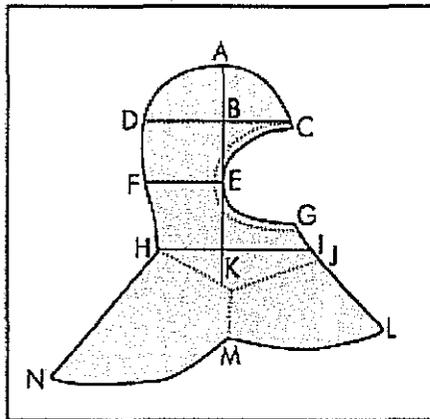
Classified by Underwriters Laboratories to meet NFPA Standard 1971 (Current Edition) in effect

Comply _____ Exception _____

THERMAL PROTECTIVE PERFORMANCE TPP

Before Washing: 52 +
 After Washing: 58 +

MEASUREMENTS



<i>Measurements</i>	
A-B	4.0"
C-D	8.5"
E-F	6.5"
H-I	10.5"
G-J	4.0"
J-L	6.0"
H-N	8.0"
A-K	13.0"
K-M	3.0"

HELMET FRONTS

Brand: CAIRNS STYLE #27 or equivalent.

SIZE:	6" Front
TYPE:	Standard Front
ATTACHMENT:	Punched for Plastic Helmet
MATERIAL:	Genuine Leather
FRONT COLOR:	Black
PANEL COLOR:	Reflective with Scotchlite
TEXT FONT:	Full Block
TEXT COLOR:	Black
TEXT LINE #1	Person's Rank
TEXT LINE #2	Person's Name
TEXT LINE #3	WESLACO FD / EMS
ARTWORK / GRAPHIC	Chrome badge as per the person's rank.

Comply _____ Exception _____

CITY OF WESLACO

Fire Department Protective Bunker Gear

BID FORM

The _____ (bidder), having read the specifications, proposes to furnish the Protective Bunker Gear, for the full and firm price of within delivery time designated below, in full compliance with the specifications.

F.O.B.: Fire Department, 901 N. Airport Dr., Weslaco, Texas 78596.

The undersigned affirms that they are duly authorized to execute this contract, that this company, corporation, firm, partnership or individual has not prepared this bid in collusion with any other bidder, and that the contents of this bid as to prices, terms or conditions of said bid have not been communicated by the undersigned nor by any employee or agent to any other person engaged in this type of business prior to the official opening of this bid.

Successful Bidder shall be responsible for on-site measuring of employees.

Respectfully submitted this _____ day of _____, 2011.

Bids will be analyzed on TOTAL dollar value not item per item and what is most advantageous to the City.

	Description	Make/Model	Unit Price	Qty.	Total Prices
1.	Bunker Jackets	_____	_____	<u>20</u>	_____
2.	Bunker Pants	_____	_____	<u>20</u>	_____
3.	Bunker Boots	_____	_____	<u>80</u>	_____
4.	Bunker Helmets	_____	_____	<u>15</u>	_____
5.	Hoods	_____	_____	<u>25</u>	_____
6.	Gloves	_____	_____	<u>30</u>	_____
7.	Gear Bags	_____	_____	<u>10</u>	_____
Total:				\$	_____

Total Bid Amount in Words (Dollars & Cents)

Delivery Date: _____

Company: _____ Address: _____

City: _____ State: _____ Zip Code: _____

Phone Number: _____ Fax Number: _____

Authorized Signature: _____ Title: _____

E-Mail Address: _____

Please print above signature