



County of San Luis Obispo
GENERAL SERVICES AGENCY

Janette D. Pell, Director

Cody VanDorn, Department Administrator

**INVITATION TO BID #3568-12
FIRE DEPARTMENT TURNOUTS**

May 16, 2012

The County of San Luis Obispo is currently soliciting bids for Fire Department Turnouts as noted.

Each bid shall specify each and every item as set forth in the attached specifications. Any and all exceptions must be clearly stated in the bid. Failure to set forth any item in the specifications shall be grounds for rejection. The County of San Luis Obispo reserves the right to reject all bids and to waive any informalities.

Please submit your bids on the attached form. They must be received at the office of the General Services Agency no later than 3:00 p.m. on June 12, 2012.

Any and all comments and suggestions are sincerely encouraged prior to the bid opening.

All questions pertaining to the content of this Invitation to Bid must be made in writing via e-mail to Barbara Adams at: beadams@co.slo.ca.us. All questions will receive a response within five business days. The question and its response will be posted (anonymously) on the County's Purchasing web site located at: [http://www.slocounty.ca.gov/GSA/Purchasing/Current Formal Bids and Proposals.htm](http://www.slocounty.ca.gov/GSA/Purchasing/Current%20Formal%20Bids%20and%20Proposals.htm). The County reserves the right to determine the appropriateness of comments / questions that will be posted on the website.

BARBARA ADAMS
Buyer – GSA - Purchasing
beadams@co.slo.ca.us

TO: ALL PROSPECTIVE BIDDERS

SUBJECT: LOCAL BIDDERS PREFERENCE

The County of San Luis Obispo has established a local vendor preference. All informal and formal bids for contracts will be evaluated with a 5% preference for local vendors. Note the following exceptions:

Those contracts which State Law requires be awarded to the lowest responsible bidder.
 Public works construction projects.

A "local" vendor will be approved as such when, 1) It conducts business in an office with a physical location within the County of San Luis Obispo; 2) It holds a valid business license issued by the County or a city within the County; and 3) Business has been conducted in such a manner for not less than six (6) months prior to being able to receive the preference.

As of March 3, 1994 individual County Buyers evaluate bids considering the local vendor preference described above. The burden of proof will lie with bidders relative to verification of "local" vendor preference. Should any questions arise, please contact a buyer at (805) 781-5200. All prospective bidders are encouraged to quote the lowest prices at which you can furnish the items or services listed in County bids.

	YES	NO
Do you claim local vendor preference?		
Do you conduct business in an office with a physical location within the County of San Luis Obispo?		
Business Address: _____ _____		
Years at this Address: _____		
Does your business hold a valid business license issued by the County or a City within the County?		
Name of Local Agency which issued license: _____		

Business Name: _____

Authorized Individual: _____ Title: _____

Signature: _____ Dated: _____

TO: ALL PROSPECTIVE BIDDERS

SUBJECT: POLICY ON PURCHASING PRODUCTS MADE WITH OR CONTAINING CHLOROFLUOROCARBONS (CFC's)

Summary

Many products contain chlorofluorocarbons (CFC's), a known depleter of ozone in the atmosphere. Under the U.S. Clean Air Act and the Montreal Protocol on Substances that Deplete the Ozone Layer, CFC production for use in industrialized nations is to be totally phased out by January 1, 1996. There are still many products on the market that contain CFC's or are made with CFC's. The Department of General Services, purchasing staff must identify products made with or containing CFC's and purchase alternative products whenever practical and possible.

Policy

To this end, it shall be the policy of the County of San Luis Obispo that all bidders, who wish to do business with the County are required to identify all products that contain CFC's or use CFC's in the manufacturing or shipping processes. Bidders are required to identify alternative products that do not use CFC's, for possible purchase by the County.

Bidder Response

	YES	NO
Do any products offered herein contain CFC's or use CFC's in the manufacturing or shipping process?		
If yes, please offer an alternative product by copying bid forms and submitting an alternate bid. Will you offer an alternate?		
Please provide any other information that may be helpful to the County. Attachments are acceptable.		

Bidder: _____

GENERAL CONDITIONS AND INSTRUCTIONS

1. All bids submitted by Seller to Purchaser should be submitted upon the attached bidder's form, completed and signed, (only typewritten or ink shall be accepted with no erasures or corrections unless properly authenticated by signature) in accordance with the instructions contained herein.
2. The issuance of this bid request creates no obligation on the part of the County and the County reserves the unconditional right at its option to either reject all bids or waive any irregularities or informalities therein. Each bid shall be in a separate sealed envelope with the bid number, name of bidder, title of the bid, date and time due showing on the outside of the envelope.
3. All prices must be firm for 45 days from the date of the bid opening and be inclusive. Upon award, prices will be in effect for the term of the contract.
4. If you offer any prompt payment discounts, please indicate this on your bid.
5. Awards will be made to realize the greatest savings to the County.
6. Submission of a signed bid will be interpreted to mean that the bidder has thereby agreed to all conditions, instructions, descriptions and specifications contained herein.
7. All materials included in the contract shall be in compliance with all Federal and State OSHA laws.
8. All applicable City, State, and Federal taxes and fees are to be included in the proposal.
9. The only terms that will be honored are those terms included in general and special conditions and instructions, purchase order or other documents issued by the County.
10. In the event of any conflicts or ambiguities between these instructions and State or Federal laws, regulations or rules, then the latter shall prevail.
11. Only one bid will be accepted per vendor.
12. Bidders may withdraw their bid either personally, by written request, or by telegraphic request confirmed in the manner specified above at any time prior to the scheduled closing time for receipt of bids. No bidder may withdraw their bid after the time set for the opening.
13. All time limits stated are of the essence. Any bids received after closing time stipulated will be returned unopened.
14. All bids must be submitted in a manner so they can be readily hole punched and placed in a standard legal size file folder.

15. The County may make partial payments after a substantial portion of the merchandise has been delivered. On all items, a 10% retention will be withheld until all merchandise has been accepted.
16. Brand names are used to establish a level of quality only. Any alternates must be approved five (5) days prior to the bid opening date, by the Buyer, who will have the sole right to make the determination. If an alternate is submitted without going through the above- described process, the County will have the sole right to decide whether or not an alternate is acceptable.
17. Vendor agrees that it will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin and that it will comply with the "Contractor's Agreements" provisions of Presidential Executive Order No. 11246.
18. **NO FAXED** Bids will be accepted.
19. Return bid by June 12, 2012 at 3:00 p.m. to:

COUNTY OF SAN LUIS OBISPO
GENERAL SERVICES AGENCY
BARBARA ADAMS, BUYER
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CALIFORNIA 93408

COUNTY OF SAN LUIS OBISPO

Bid Specification

Structural Firefighting Protective Ensemble For Structural Fire Fighting

California Department of Forestry and Fire Protection

1. Scope

This specification sets forth the requirements for Structural Firefighting Protective Ensemble (Jackets and Trousers) intended for use in structural firefighting by CAL FIRE personnel. All garments shall meet NFPA 1971, 2007 (or latest edition). The County intends to initially purchase 57 sets of turnout, however no guarantee of usage is given.

2. Applicable Specifications

Specifications and standards (latest editions) referenced in this document in effect on the opening of the Invitation to Bid form a part of this specification where referenced.

2.1. National Fire Protection Association

NFPA 1971 Standard on Protective Ensemble for Structural Fire and Proximity Fire Fighting.

3. Requirements

3.1 Ensemble Fabric Material

The individual layers forming the ensemble are:

Outer Shell

Moisture Barrier

Thermal Liner

Fabrics used in construction of fire protective ensemble are limited to the following brands:

- Outer Shell – Gemini™ with Matrix Technology, Manufacturer: Tencate, Color: Natural / Gold
- Moisture Barrier - Crosstech® Type 2C or Crosstech® Black, Manufacturer: W.L. Gore & Associates Inc.
- Thermal Barrier - Quantum3D® SL2, Manufacturer: Tencate

Comply _____

Deviations: _____

3.2 Sealed Moisture Barrier Seams

All moisture barrier seams shall be sealed with a minimum 1 inch wide 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. Manufacturer's recommended application process shall be used.

Comply _____

Deviations: _____

3.3 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

flame resistant hook and loop fastener tape or a covered zipper shall secure the thermal liner/moisture barrier to the outer shell along the length of the neck line under the collar (see Collar section). The thermal liner/moisture barrier shall be secured with a minimum of four snap fasteners appropriately spaced on each jacket facing and at least four snap fasteners at each sleeve end. Additionally there shall be at least three snap tabs at hem to secure liner to shell.

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 at least two snap fasteners per leg.

Comply _____

Deviations: _____

3.4 Stitching

Stitching shall comply with the requirements of NFPA 1971 (latest edition). All major A seams shall be sewn with ball point needles only. All seams shall be continuously (no over stitching or back stitching) stitched only. There shall be no joined stitching in midseam. The ends of stitches shall be bartacked or backstitched, 1/2 inch minimum, or crossed by another seam.

Comply _____

Deviations: _____

3.5 Jacket Construction

3.5.1 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 in accordance with current NFPA 1971 Standards.

Comply _____

Deviations: _____

3.5.2 Drag Rescue Device (DRD)

A Firefighter Drag Rescue Device meeting NFPA 1971 (latest edition) requirements shall be installed in each jacket. The flap shall have a compliant reflective patch sewn to the outside to clearly identify the location of the DRD (Drag Rescue Device). The DRD shall be removable for laundering.

Comply _____

Deviations: _____

3.5.3 Liner Access Opening-Jacket

The liner system of the jacket shall incorporate an opening at the leading edge of the left front. This opening shall run approximately 10 inches along the perimeter for the purpose of inspecting the integrity of the jacket liner system. When installed into the outer shell the Liner Access Opening shall be covered and protected by the overlap of the outer shell facing.

Comply _____

Deviations: _____

3.5.4 Sleeves

The sleeves shall be a minimum of two piece construction. 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 or by coat size and sleeve length. The moisture barrier liner must work with the thermal liner and outer shell as an integrated system.

The sleeves 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 _____

Deviations: _____

3.5.5 Sleeve Cuff Reinforcement

The sleeve cuffs shall be reinforced with a layer of liquid impervious aramid type material. Reference Brand: Dragonhide or Ara-Shield. Outer Shell "self" Fabric and/or leather are not acceptable. The cuff reinforcements shall not be less than 2 inches in width and folded in half, approximately one half inside and one half outside the sleeve end for greater strength and abrasion resistance. The cuff reinforcement shall be double stitched to the sleeve end.

Comply _____

Deviations: _____

3.5.6 Wristlets / Sleeve Wells

Each jacket shall be equipped with hand or wrist guards of double thickness. A separate thumbhole wristlet with an approximate diameter of 2 inches shall be recessed approximately 1 inch from the leading edge. The wristlets shall be attached and seam sealed at the junction of the moisture barrier sleeve to waterwell seam to prevent liner pullout. The waterwell must pass the NFPA 1971 Whole Garment Liquid Penetration Test. At least two fire resistant (e.g. Nomex®) snap tabs shall be sewn into the juncture of the sleeve well and wristlet. The configuration shall ensure there is no interruption in protection between the sleeve liner and wristlet.

Comply _____

Deviations: _____

3.5.7 Collar & Free Hanging Throat Tab

The collar shall consist of a minimum three-layer construction and be of two-piece design. The outer layers shall consist of outer shell material on outside and layers of thermal liner or moisture barrier fabric on the inside.

The collar shall be a minimum of 3 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.

A loop installed on the back of the collar shall be constructed of a double layer of outer shell material – top and bottom. The top and bottom of each loop shall attach to each other with snap fasteners and flame resistant hook & loop fastener tape sewn to the ends.

The throat tab shall be sized and designed to ensure closure and passage of the NFPA 1971 Whole Garment Liquid Penetration Test. Throat tab shall be a contour design that is separate from the storm closure.

Comply _____

Deviations: _____

3.5.8 Liner Shoulder Thermal Enhancement

A shoulder thermal enhancement layer fabricated of thermal liner fabric shall be provided and shall drape over the top of each shoulder extending from the collar to the sleeve/shoulder seam. The 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 _____

Deviations: _____

3.5.9 Front & Upper Back Reinforcement

An additional layer of outer shell fabric shall be used to reinforce the upper back area of the jacket. This reinforcement layer shall extend from shoulder seam to shoulder seam, and from the juncture of the collar and back panel to a depth of at least 7½ inches. The upper back reinforcement layer shall be double stitched to the back body panel in accordance with current NFPA 1971 standards.

Comply _____

Deviations: _____

3.5.10 Jacket Front

The jacket shall incorporate separate facings to ensure there is no interruption in thermal or moisture protection in the front closure area. The facings shall measure at least 2½ 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. Specified moisture barrier material shall be sewn to the jacket facings 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 facings by means of snap fasteners. No false facings shall be accepted.

Comply _____

Deviations: _____

3.5.11 Storm Flap

A rectangular storm flap measuring minimum of 3¼ inches (6 inches for hook & dee ring in closures) wide and 24 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 plies of outer shell fabric with a center ply moisture barrier fabric. The outside storm flap shall be double stitched to the right side body panel and shall be reinforced at the top and bottom with backtacks.

Comply _____

Deviations: _____

3.5.12 Storm Flap & Jacket Front Closure System

The jacket shall be closed by means of a minimum 22 inch size #10 heavy duty high-temp polymer zipper on the jacket fronts and hook and dee rings on the storm flap. The teeth of the zipper shall be mounted on fire resistant cloth (e.g. Nomex®) and shall be sewn into the respective jacket facings. The zipper stop shall be "pressed", not molded, insuring the highest quality with increased durability. The storm flap shall close over the left and right jacket body panels and shall be secured by means of four non-ferrous inward facing hook and dee rings. The dee rings shall be secured to the leading edge of the storm flap. The rivets shall be reinforced on the underside

of the storm flap with leather or outer shell fabric. The dee rings shall be spaced along the storm flap. At least four inward facing hooks shall be attached to the left front body panel with at least three rivets for each hook. The rivets shall be reinforced on the inside of the body panel with a single circular piece of leather or outer shell fabric for each hook. The inward facing hooks shall be positioned in such a manner that they engage the dee rings when the storm flap is closed over the front of the jacket.

Comply _____

Deviations: _____

3.5.13 Cargo Expansion Pockets

Each jacket front body panel shall have a minimum 2 inch deep by 10 inch wide by 8 inch high expansion pocket double stitched to the shell 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 Self Contained Breathing Apparatus (SCBA). Retroreflective trim shall run over the bottom of the pockets so as not 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 back of the pocket shall be reinforced with a layer of fabric with mechanical strength and that is fire resistant (e.g. Kevlar or outer shell material) on the inside. The pocket flaps shall be rectangular in shape, constructed of two layers of outer shell fabric and shall measure at least 3 inches deeper than the pocket expansion and at least ½ inch wider than the pocket. The pocket flaps shall be closed by means of flame resistant hook and loop fastener tape. Two pieces of minimum 1½ 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 minimum 1½ inch by 3 inch FR loop 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. Retroreflective trim shall run over the bottom of the pockets so as not to interrupt the trim stripe.

Comply _____

Deviations: _____

3.5.14 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 loop fastener tape. A minimum 1½ 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 minimum 1½ inch by 3 inch piece of FR loop 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 material shall also be sandwiched between the two layers of outer shell material in the pocket flap. The radio pocket shall measure approximately 2 inches deep by 4 inches wide by 9 inches high and shall be installed on the left chest.

Comply _____

Deviations: _____

3.5.15 Microphone Strap

Two straps shall be constructed to hold a microphone for a portable radio. It shall be sewn to the coat at the ends only. One microphone strap shall be mounted above the breathing apparatus face mask pouch and shall

be constructed of double layer outer shell material. The other microphone strap shall be mounted above the radio pocket and shall be constructed of double layer outer shell material.

Comply _____

Deviations: _____

3.5.16 Retroreflective Fluorescent Trim

The retroreflective fluorescent trim shall consist of lime/yellow (L/Y) borders with 1 inch silver stripe centered 1 inch from each edge). Retroreflectivity and fluorescence of retroreflective trim shall meet the minimum requirement of NFPA 1971. Reference Brand: ScotchliteTriple Trim

- The trim shall be 3 inch wide stripes and shall be NFPA Vertical style and shall be located
- Around each sleeve below the elbow
- Around the bottom of the jacket within approximately 1 inch of the hem
- Horizontally across the chest area approximately 3 inches below the armpit
- 2 vertical stripes on the back (one on each side) beginning at the bottom of the jacket and extending up to the upper back reinforcement layer.



Comply _____

Deviations: _____

3.5.17 Retro-reflective Lettering, Department Patch

Each jacket shall have solid yellow retro-reflective lettering, with same retro-reflective performance as specified for the yellow area of the trim, sewn to a letter patch of the outer shell fabric specified, sewn to the upper back (Row A/B) for the department name: CAL FIRE

Comply _____

Deviations: _____

3.5.18 Retro-reflective Lettering, Hook & Loop Firefighter Name Patch

Each jacket shall have solid yellow retro-reflective lettering, with same retro-reflective performance as specified for the yellow area of the trim, sewn to a letter patch of the outer shell fabric specified, attached to the lower back (Row G/H) with fire resistant (FR) hook and loop, for the firefighter names. Size of lettering shall be 3" if 10 letters or less and 2" if 11-14 letters. The hook and loop letter patch shall be constructed of a double layer of outer shell fabric. The letter patch shall attach to the back of the jacket with FR hook and loop fastener.

Maximum Letters per 1 line on Letter Patch		
Size of Letters	2"	3"
Row A/B	16	11
Row G (29"/33" length)	14	10
Row H (32"/36" length)	14	10

Comply _____

Deviations: _____

3.5.19 Sizing

The jacket length shall be measured from the juncture of the collar and back panels to the hem of the jacket. Sizing options shall include the following front / back options:

FRONT	BACK
27	31
29	33
32	36
35	39

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 68. Generalized sizing, such as small, medium, large, etc., shall not be considered acceptable.

Comply _____

Deviations: _____

3.6 Trouser Construction

3.6.1 Body

The body of the shell shall be constructed of multiple panels and shall be shaped to provide a fit that will allow maximum body movement, and shall be joined together by double stitching in accordance with current NFPA 1971 standards. The body panels and seam lengths shall be graded to size to assure accurate fit in a broad range of sizes.

Comply _____

Deviations: _____

3.6.2 Liner Access Opening (Trouser)

The combined moisture barrier and the thermal liner shall be completely removable for the pant. The liner opening shall be reinforced with a sealed edge to prevent fraying and wicking of contaminants and to prevent the liner from tearing from the constant donning and doffing of the trousers.

The liner system of the trouser shall incorporate an opening at the right side of the waist, a minimum of 11 inches, for the purpose of inspecting the integrity of the trouser liner system.

Comply _____

Deviations: _____

3.6.3 Waistband

Manufacturer's standard waistband that prevents contaminants from entering the space between the outer shell and the moisture barrier system shall be provided.

Comply _____

Deviations: _____

3.6.4 Trouser Closure System

A trouser closure system meeting NFPA 1971 (latest edition) requirements shall be installed in each trouser. Positive closure system, either hook and dee ring or optional belt system shall be provided.

Comply _____

Deviations: _____

3.6.5 External / Internal Fly Flap

The trousers shall have an "outside" fly flap constructed of at least two layers of outer shell fabric, with at least one layer of moisture barrier fabric sandwiched between. The underside of the external fly flap shall have a hook and loop system or zipper system for 100% closure.

An internal fly flap constructed of one layer of outer shell, thermal liner and specified moisture barrier fabrics shall be sewn to the leading edge of the right front body panel.

Comply _____

Deviations: _____

3.6.6 Padded Rip-Cord Suspender Attachment

On the inside waistband shall be attachments for the standard "H" style padded rip-cord suspenders. There shall be four attachments total – 2 front, 2 back. The suspender attachments shall be constructed of a double layer of black fire resistant fabric (e.g. Nomex[®]) measuring approximately ½ inch wide by 3 inches long. They shall be sewn in a horizontal position on the ends only to form a loop. The appearance shall be like a horizontal belt loop to capture the suspender ends.

The main body of the suspenders shall be constructed of approximately 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 an approximate 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 shall be padded. The forward ends of the suspender straps shall be equipped with specially configured non-slip metal slides.

Comply _____

Deviations: _____

3.6.7 Seat

The rise of the rear trouser center back seam, from the top back of the waistband to where it intersects the inside leg seams at the crotch, shall exceed the rise at the front of the trouser by at least 2½ inches. The seat shall be designed to provide added fullness to the seat area for extreme mobility without restriction when stepping up or crouching and shall be graded to size. Seat area construction shall maintain alignment of the knee directly over the knee pads when kneeling and crawling.

Comply _____

Deviations: _____

3.6.8 Take Up Straps

The trousers shall be equipped with two take up straps. The straps shall be constructed of minimum 1 inch wide black fire resistant twill fabric with mechanical strength (e.g. Aramid) and be positioned in the waist area on the outside of the garment; one on each side. Each take up strap shall be comprised of two sub-component straps. The rear strap component shall be constructed of black fire resistant twill fabric (e.g. Nomex®). The rear strap shall measure minimum 1 inch wide and 4 inches long, folded back to form a loop, and shall be bartacked to the trousers.

The loop shall hold a high temp thermoplastic buckle. The buckle shall point toward the front. The front strap component shall measure 1 inch wide by approximately 9 inches long (finished dimension). One end shall be folded back on itself to form a loop. A high temp thermoplastic slide fastener shall be captured within the loop. The front strap component shall be inserted through the buckle on the rear strap component, back through the slide fastener, and the end shall be bartacked to the trousers. A pull-tab of 1 inch black fire resistant twill fabric with mechanical strength (e.g. Aramid) Aramid type twill shall be affixed to the slide fastener. The take up strap pull-tabs shall pull toward the front to tighten. This shall allow for approximately 4 inches of adjustment per strap (8 inches overall).

Comply _____

Deviations: _____

3.6.9 Expansion Pockets

An expansion pocket, measuring approximately 2 inches deep by 8 inches wide by 8 inches high shall be double stitched to the front of each leg approximately 2 inches the outseam above the knee with the majority of the pocket on the front of the leg. The lower half of each expansion pocket shall be reinforced with a layer of fire resistant fabric with mechanical strength (e.g. Kevlar or 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 material and shall measure at least 3 inches deeper than the pocket expansion and ½ inch wider than the pocket. The pocket

flaps shall be closed by means of flame resistant hook and loop fastener tape. Two pieces of 1½ 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 minimum 1½ inch by minimum 3 inch FR loop 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 _____

Deviations: _____

3.6.10 Knee Construction

The outer shell of the trouser legs shall be designed with expansion areas for ergonomics to provide added fullness for increased movement and maximum flexibility and to insure no restriction of movement. The knee shall be installed proportionate to the trouser inseam, so that it falls in the correct knee location.

The thermal liner fabric shall be constructed to work in conjunction with the outer shell to increase freedom of movement when kneeling, crawling, climbing stairs or ladders, etc. The moisture barrier liner must work with the thermal liner and outer shell as an integrated system.

Additional layers of thermal liner and moisture barrier fabric shall 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 _____

Deviations: _____

3.6.11 Knee Reinforcements

The knee area shall be reinforced with a layer of liquid impervious fabric. Reference Brand: Dragonhide or Ara-Shield. Outer Shell "self" Fabric and/or leather are not acceptable.

The knee reinforcement shall be slightly offset to the outside of the leg to insure proper coverage when bending, kneeling and crawling. The knee reinforcements shall measure at least 9 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 _____

Deviations: _____

3.6.12 Internal Knee Padding

The trousers shall have replaceable padding on the inside of the outer shell in the knee area contained in a special pocket. The pocket shall be constructed of black fire resistant fabric (e.g. Nomex®) measuring approximately 7" wide by 10" high. It shall be sewn to the inside of the outer shell in the knee area on the bottom and two sides. The top of the pocket shall be open to accept the padding material, which shall be inserted into the pocket. The padding shall consist of one layer of closed cell foam. Reference Brand: Silicone Closed Cell Foam.

Comply _____

Deviations: _____

3.6.13 Trouser Cuff Reinforcements

The cuff area of the trousers shall be reinforced with aramid type material. Reference Brand: Dragonhide or Ara-Shield Outer Shell "self" Fabric and/or leather are not acceptable. The moisture barrier liner must work with the thermal liner and outer shell as an integrated system.

The cuff reinforcements shall not be less than 2 inches in width and folded in half, approximately one half inside and one half outside the sleeve end for greater strength and abrasion resistance. The cuff reinforcement shall be double stitched to the end of the leg. At least two fire resistant (e.g. Nomex®) snap tabs shall be sewn to the inside of each leg of the outer shell approximately three inches from the bottom of the trouser leg. The configuration shall ensure there is no interruption in protection between the trouser liner and the trouser cuff reinforcements.

Comply _____

Deviations: _____

3.6.14 Reverse Boot Cut

The outer shell trouser leg cuffs shall be constructed such that the back of the leg is approximately 1 inch shorter than the front. The liner shall 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 shall minimize the chance of premature wear of the cuffs and injuries due to falls as a result of "walking" on the trouser cuffs.

Comply _____

Deviations: _____

3.6.15 Retro-reflective Fluorescent Trim

The trousers shall have a 3 inch stripe of retro-reflective fluorescent trim encircling each leg below the knee to comply with the requirements of NFPA #1971 (2007 revision) The retro-reflective trim shall consist of lime/yellow (L/Y) borders with 1 inch silver stripe centered 1 inch from each edge). Reference Brand: Scotchlite Triple Trim.

Comply _____

Deviations: _____

3.6.16 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., shall not be considered acceptable. Sizing specifically for women shall also be available.

Comply _____

Deviations: _____

3.6.17 Labels

Appropriate warning label(s) shall be permanently affixed to each garment (Coat and Pants). Garment label(s) shall include the following information:

Compliance to NFPA Standard #1971 - current edition Underwriters
Laboratories classified mark Manufacturer's name
Manufacturer's address
Manufacturer's garment identification number
Date of manufacture
Size
Fiber content
Bar Coding for Tracking System Outer Shell Fabric
Name Moisture Barrier Fabric Name Thermal Liner
Fabric Name

Comply _____

Deviations: _____

4. Quality Assurance:

4.1 The protective clothing manufacturer shall be certified and registered to ISO 9001 to ensure a satisfactory level of quality.

Comply _____

Deviations: _____

4.2 Garments shall be tested for compliance to NFPA Standard 1971 (2007) by Underwriters Laboratories (UL). Underwriters Laboratories shall certify and list compliance to that standard. Such certification shall be denoted by UL certification label.

Comply _____

Deviations: _____

4.3 Workmanship: The protective ensemble shall be free from defects that shall affect appearance and serviceability. All letters, characters, configuration features, etc., are to be uniform in size, shape, depth, color, and displaying a uniform appearance

Comply _____

Deviations: _____

ADMINISTRATIVE REQUIREMENTS

1. Garment Tracking System

Contractor shall include a "Garment Tracking System" that meets the record keeping requirements outlined in Chapter 4 of NFPA 1851, Standard on Selection, Care, and Maintenance of Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting, 2008 Edition. Every garment shall include a "bar code" for tracking. The bar code shall allow for reading by automated hand held scanner and also manual entering for those facilities that do not have a hand held bar code scanner. The Garment Tracking System shall:

- Be Web Based allowing input from every CAL FIRE facility utilizing internet capable computer systems.
- Be compatible with CAL FIRE Windows Operating System (Microsoft Window XP and Window 7)
- Include hand held bar code scanner option at a competitive pricing.

2. Garment Tracking System Training

Training shall be provided by a factory certified or trained representative. Contractor shall provide a detailed lesson plan that addresses the capabilities, limitations and special features of the garment. In addition, the selected vendor shall provide training on NFPA 1851, including conducting Routine Cleaning, Advance Cleaning, Routine Inspection, and Advance Inspection, for selected members of each CAL FIRE Unit. The selected vendor shall provide ON SITE / ANNUAL Training annually for twenty-one CAL FIRE Administrative Units (see attached list). The selected vendor shall also provide 2 training sessions for twenty one (21) CAL FIRE Training and Safety Staff.

3. Warranty

The manufacturer shall warrant these jackets and trousers to be free from defects in material and workmanship for one year from date of acceptance.

Each jacket and trousers will be covered by a warranty that meets the minimum requirements specified in the California Code of Regulations (CCR), Title 13 section 2707. The supplier shall have a means of servicing and supporting the devices in the State of California.

Warranty Repairs

Warranty repairs shall be provided according to NFPA 1851, current edition, Verified Independent Service Provider. Provider shall have a minimum of two repair facilities located in California, one in Northern California, one in Southern California.

Pick up and return of warranty repairs shall be at NO CHARGE. Warranty repairs shall be picked up and returned within 5 business days of written and verbal notification at the CALFIRE Academy.

Supplier must inform CALFIRE staff of a direct contact to include, name, telephone number, fax number, and address.

4. Bid Submission

Following item(s) shall be submitted with the bid.

- Bidder shall provide evidence that manufacturer of Structural Firefighting Protective Ensemble is certified to ISO 9001.
- Bidder shall provide list of customer references of government departments in U.S whom similar products in quantities similar to those required by this contract have been delivered in last three (3) years.

- Name and address of repair facilities.

5. Experience

Manufacturer shall have minimum of three years of verifiable, experience in the production of structural firefighting ensembles (Jacket & Trouser).

6. Post award Sample Submission

Upon request, after notification of award, the successful bidder shall submit one each size of jacket and trouser. The sample shall be exactly as bid, the same as those that will be produced for the order, shall satisfy all requirements of this specification, and shall be supplied at no expense to the County.

7. Third Party Testing & Listing Program

All components used in the construction of the offered garments shall be compliant to NFPA Standard 1971 (2007 revision) by Underwriters Laboratories (UL). Underwriters Laboratories shall certify and list compliance to NFPA Standard 1971 (2007 revision). UL certification shall be denoted by the UL certification label attached to each garment.

8. Packaging

Each Jacket and trouser shall be individually wrapped. Each package shall have a label permanently affixed to the top portion, front exterior of the package.

Each label shall indicate the following information:

Garment Type (Jacket or Trouser), Size, and trouser inseam.

The wrapped items shall be boxed in a shipping carton in accordance with industry standard.

9. Garment Delivery Requirements

CALFIRE's delivery schedule and delivery location for each Jacket and Trousers will be provided by CALFIRE at the pre-construction meeting to discuss a time and place for fitting of each CALFIRE staff. Supplier must inform CALFIRE staff of a direct contact to include name, telephone number, fax number, and address for each delivery site.

10. Sample Sizing

Both Male and female sizing samples shall be on hand for use when sizing. The supplier shall be available to perform all sizing requirements within 96 hours of written notice. Measuring with a tape measure is not acceptable.

Sizing errors by the supplier shall be corrected at NO CHARGE.

11. OPTION TO INCREASE / DECREASE QUANTITIES

The County reserves the right to increase the quantity up to 114 unit(s) or up to 100%, at the awarded price, for up to twenty four (24) months from purchase order award.

BID SHEET

Item	Qty	Description	Unit Price	Total
1	57 each	Turnout Coat	\$ _____	\$ _____
2	1 each	Oversize Charge	\$ _____	
Make & Model: <hr/> <hr/>				
3	57 each	Turnout Pants	\$ _____	\$ _____
4	1 each	Oversize Charge	\$ _____	
Make & Model: <hr/> <hr/>				
5	57 pair	Suspenders	\$ _____	\$ _____
Make: <hr/>				
Grand Total				\$ _____
Warranty: <hr/>				

Delivery in Days after Receipt of Order: _____

GARMENT OPTIONS

Note: The following is a non award item for Jacket and Trousers. Please provide the unit price for each option. The County reserves the right to purchase at listed cost for up to 24 months of date of award:

Jacket Options:

1. Optional Unit Jacket Identification Patch

Substitution of government contract name in place of CAL FIRE on Row A of jacket. Bids shall provide price per letter.

\$ _____ each

2. Thermo / Heat Transfer Lettering Option

Thermo/Heat Transfer lettering that is UL listed and NFPA compliant materials in lieu of specified retro-reflective lettering. Bids shall provide pricing per letter.

\$ _____ each

3. Flash light Retainer Strap

The jackets shall be equipped with a flashlight retainer strap. An inward facing safety hook, attached to a double thickness leather tab, shall be double riveted in a vertical position to the upper chest. A fabric strap of outer shell material measuring approximately 1 inch by 3 inches shall be sewn to the coat at the ends only approximately 1 inch below the safety hook. A double thickness strap of outer shell material measuring approximately 1 inch by 12 inches shall be double stitched to the jacket in the middle of the strap approximately 6 inches below the safety hook. Approximately 1 inch by 6 inch flame resistant hook and loop fastener tape shall be attached to the loose ends of the strap so that they may be joined together around the flashlight. The retainer strap shall be located on the left chest above the trim, next to the storm flap.

\$ _____ each

4. Large Breathing Apparatus Face Mask Pouch

An oval shaped pouch measuring approximately 4 inches deep by 9 inches wide by 15 inches high shall be constructed of outer shell material. The pouch shall accommodate a breathing apparatus facemask and shall be stitched to the right front body panel. Two metal drain eyelets shall be installed in the bottom of the pouch. The pouch closure shall consist of a heavy-duty zipper mounted on the left side of the pocket (as oriented to the wearer).

\$ _____ each

5. Glove Strap

The jackets shall be equipped with a glove strap. A double thickness strap of outer shell material measuring approximately 1 inch by 12 inches shall be sewn to the jacket in the middle of the strap. 1 inch by 4 inch flame resistant hook and loop fastener tape shall be attached to the loose ends of the strap so that they may be joined together around the gloves. The retainer strap shall be located on the outside of the left coat pocket just above the trim band.

\$ _____ each

6. Wire Cutter Pocket

Each jacket shall have a pocket double stitched to it designed for the storage of a wire cutters and shall measure approximately 3½ inches wide by 9 inches high with a 1 inch expansion at the top. A rust resistant metal drain eyelet shall be installed at the bottom of the pocket to facilitate drainage of water. The front of the pocket shall be reinforced with gray suede leather. 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 (FR) hook and loop fastener tape. A 1½ 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 1½ inch by 3 inch piece of FR loop fastener tape shall be installed horizontally on the outside of the pocket near the top center and positioned to engage the hook fastener tape. The wire cutters pocket shall be located inside the mask pocket angled toward the center front of the jacket.

\$ _____ each

Trouser Options:

7. 6 pack Tool Compartment

A tool pocket constructed of Ara-Shield® or comparable material and measuring approximately 8 inches high by 10 inches wide shall be installed on the inside of the right pocket with double stitching. The front pockets shall measure at least 6 inches high. Two separate rows of stitching shall divide the tool pocket into six compartments, three in front (6 inches high) and three in back (8 inches high), measuring approximately 3 inches wide and set side-by-side. The tool compartment shall be installed in the right expansion pocket.

\$ _____ each

8. Belt Loops

Three belt loops of two-layers of self fabric, 4" wide by 3 1/2" high shall be double stitched to pant shell and bartacked at all four corners. One loop at center back and one loop on each side.

\$ _____ each

9. Belt

Two inch wide KEVLAR® or comparable belt with 2" self-locking thermoplastic buckle with quick-release mechanism.

\$ _____ each

The undersigned agrees to:

Deliver F.O.B. (DEST) San Luis Obispo County, CDF-Fire, 635 N. Santa Rosa St., San Luis Obispo CA 93405. Fire Department Turnouts itemized below and in accordance with Specifications attached.

All equipment and accessories shall comply with the applicable State and Federal Codes, Regulations and Requirements.

DESCRIPTIVE LITERATURE WITH COMPLETE SPECIFICATIONS MUST ACCOMPANY ALL BIDS. DEVIATIONS TO ATTACHED SPECIFICATIONS MUST BE CLEARLY INDICATED. NO DEVIATIONS UNLESS SPECIFIED IN SPECIFICATION SHEET OR BELOW.

Do the prices bid, reflect any GSA, State of California CMAS, Government or other special pricing?

List which, if any _____

Warranty Information _____

Delivery in number of days after receipt of order _____

TERMS OF SALE _____

DATE OF DELIVERY _____ **GRAND TOTAL:** _____

Authorized Official Name (Print) _____

Authorized Official Title (Print) _____

Signature _____

Firm Name _____

Address _____

City _____ State _____ Zip Code _____

Telephone _____ FAX _____

Federal Taxpayer ID# _____

- Individual/Sole Proprietor Corporation Partnership Other

BIDS MUST BE RECEIVED BY 3:00 P.M., JUNE 12, 2012 AND
WILL BE OPENED IN THE OFFICE OF THE GENERAL SERVICES AGENCY
Bid #**3568-12**