

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS DIVISION / HAWAII DISTRICT**

Firefighter Duty, Dress Uniforms & Accessories
06/08/2026

Scope of Work

Provide a Request for Proposal (RFP) to establish a Firefighters Uniform price list of goods and services on a as needed basis for the Airports Division, HAWAII Districts Aircraft Rescue Firefighting Unit. Contractor shall have an established retail outlet or place of business with a facility or facilities on the island of Oahu. Services shall not exceed budgeted amount \$80,000 which includes applicable fees, taxes and extend more than one calendar year.

Brand or Trade Name

Whenever a brand or manufacturer's name, designation or material appears in connection with the specified item, such name or designation indicates the standard of quality desired, and the reference shall follow applicable trademark or Copyright laws.

The Officer-In-Charge (O-I-C)

State of Hawaii, Department of Transportation - Airports District Fire Chief or his designate 808-327-9503

Payments

The Airport will make payments with an approved Purchase Order (PO) or by P-card. Any remaining portion thereof shall be the responsibility of the ARFF personnel.

Delivery/Received Dates

All authorized purchases will be scheduled and arranged for picked up by ARFF personnel once payment is made in full.

Airport Location

Ellison Onizuka Kona International Airport at Keahole

Attn: Kona ARFF Station

73-200 Kupipi Street

Kailua-Kona HI, 96740

Minimum Specifications

The type, color, design, quality, and performance of material specified shall be equal to the existing uniforms being used locally by the Honolulu Fire Department (HFD). It shall be the Contractor's responsibility to ensure that the uniforms being offered match with the existing Workrite Uniform Company:

1. Navy Duty Uniform Short Sleeve Shirt: Workrite FSF2 or approved substitute
2. Navy Fire Fighter Pants: FP52 or approved substitute
3. Navy Rescue Cargo Pants: FP70NV or approved substitute
4. White Knit Duty Shirt: Style Z3310 or approved substitute
5. Chiefs 100% Polyester Pants: HORACE – HS2149 or approved substitute
6. Navy Duty Uniform Base Layer Fire Resistive T-Shirts
7. Duty Uniform Jacket, Polyester
8. Navy Duty Uniform Cotton T-Shirts (Short Sleeve)
9. Navy Duty Uniform Cotton T-Shirts (Long Sleeve)
10. Navy Duty Uniform Board Shorts
11. Navy Duty Uniform Athletic Shorts
12. Hat, Dress
13. Black Duty Uniform Belt
14. Black Clip-on Tie
15. State of Hawaii, DOT ARFF - Patch
16. State of Hawaii, DOT ARFF - Uniform Badge
17. State of Hawaii, DOT ARFF - Collar Pins
18. State of Hawaii, DOT ARFF - Cap Shield
19. State of Hawaii, DOT ARFF - Name Plate
20. White Long Sleeve Shirt "Class A" ELBECO -310 or approved substitute
21. State of Hawaii, DOT ARFF "Class A" Coat
22. State of Hawaii, DOT ARFF "Class A" Pant

If in the event the uniforms being offered does not match in type, color, design, quality, or performance; to include, but not limited to the rate of fading after multiple washings, wear, and durability; the Contractor shall be responsible to replace all the uniforms provided, used or new, at the Contractors own expense with five (5) days of notification.

Approval for unspecified garments that the vendor is offering as similar but compatible shall be subject to approval by the authorized ARFF personnel.

Additional Services.

Fittings/Alterations

The Contractor, based on their professional experience, may initiate a discussion with the ordering ARFF Personnel to determine whether the wearer, based on experience, need to have basic alterations of the duty uniform shirt, trouser, or jacket and what, if any, alterations would be needed. Any errors or costs involved in the initial judgment to recommend alternations or corrections of the uniform situation, shall be the responsibility of the Contractor, at no additional cost to the Airport.

To expedite the general fitting process, the Contractor shall have a complete set of all sizes for the various groups of uniform, or at a minimum, the most general sizes in each garment type to be provided.

The Contractor shall provide an initial fitting for the individual ARFF employee at the time that the ARFF Personnel places an authorized order to purchase the uniforms. The individual ARFF employee shall be allowed, when trying on the uniform for the initial fitting, to request a maximum of one (1) trouser hem alteration to each garment for a proper fit.

When the ARFF Personnel is contacted to pick up their finished garments, the Contractor shall offer the Personnel, one (1) final fitting to ensure a proper fit before the uniform is accepted.

If women's sizes are not available, a minimum of one (1) fitting for custom tailoring shall be made available to the female personnel, at no additional cost to Airport or ARFF personnel.

The Contractor shall be responsible to inform the ordering ARFF Personnel that the cost of any alterations after they sign to accept any uniform item shall be the responsibility of the ordering ARFF Personnel. However, if the Contractor is unable to obtain a satisfactory fit that is acceptable to the wearer after the one (1) alteration allowed, the Contractor shall inform the ordering ARFF Personnel that no additional attempts to fix the uniform can be made without further approval from the OIC or his/her representative.

Nomex or approved substitute thread shall be used for any and all alterations, including hemming.

The cost to put in any gussets, as needed, on the shorts or shirts to ensure proper fit, shall be included in the unit price.

All garment parts must be properly cut to avoid puckering after laundering.

All hems shall be blocked at the front opening, turned, and single needle stitched.

The garment shall not have any incomplete sewn hems or loose threads.

Stitching must be of proper tension and size and shall be maintained throughout the garment to avoid loose stitching, which may result in unraveling or seam failure. Tight stitching shall also be avoided, which may result in bunching or gathering.

The Contractor shall make minor repairs to the garments at no additional cost to the Airport, within the timeframe specified.

The material quality, construction and appearance shall be without flaws and maintained consistent with each garment.

Any metal fasteners or adornments must not be exposed to or come in contact with the wearer's skin.

Each design, letter, and punctuation mark shall have "full" threads embroidered onto the material so as not to show the background color of the fabric and be neatly and professionally sewn by the Contractor.

Each design, letter and punctuation mark shall have visually correct placement, and be evenly spaced with each letter having clean and separate "breaks" between each piece. The threads shall be contained within the backing material and edging must not be frayed or loose.

The name and/or the rank and stars shall be embroidered directly on to the uniform material.

Re-embroidery or monogramming due to Contractor clerical error or poor-quality sewing of lettering shall be provided by the Contractor, at no additional cost to the Airport.

All silk screening shall be done in a professional manner and shall utilize the highest quality and best standard industrial practices when producing and screening the garments specified. Any screening that is crooked, has blurry designs, is not visually centered or artistically pleasing, of poor quality, or with any type of misprint, shall be rejected.

The Contractor must fit each ordering ARFF employee and provide an initial hemming of the pants, at no additional cost to the Airport.

A request may be made from the Contractor to have a slanted hem – with one (1) leg longer or shorter than the other side. If done, the slanted hem shall be at no additional cost to the Airport.

The Contractor shall provide the embroidered names and patches, for the uniforms herein as part of the Contract unit prices for the uniform shirts and other apparel.

The Contractor shall charge the ARFF Personnel requesting additional services at listed pre-approved amount.

All garments and other items being offered shall meet or exceed when applicable all National Fire Protection Association (NFPA) and American Society for Testing and Materials (ASTM) requirements for the intended use of the garments being offered. The Airport reserves the right to request proof of compliance prior to award. Failure to provide proof of compliance shall cause for rejection of the offer.

Extra Work.

No work of any kind in connection with the work covered by the specifications shall be considered as extra work or entitle the Contractor to extra compensation, except when work is ordered in writing by the OIC and specifically referred to as extra work.

The Contractor shall provide a listing of additional services available to supplement these specifications, along with the fees, for work such as: lengthening of pants legs, tapering sides of shirts, shortening sleeves, pant waist alteration, attaching of service stars, monograms or any

other work that requires additional attachment, disassembling or detaching sections of the garment, repair, or other replacement.

The Airport reserves the right to pay for additional services by Special Order and shall be indicated on an approved purchase order (PO), or Pcard,

Should additional requests be made of the Contractor, or a service is requested that does not appear to be covered under this specification, the Contractor shall contact the OIC or his/her representative at (808) 834-6063.

The Airport shall not be responsible for any additional work outside the scope of work as listed in the Specifications that is requested by the individual ARFF Personnel. The OIC must approve of this additional request.

Embroidery:

The name and rank shall be embroidered directly on the uniform material. For the embroidered name and rank, the letters shall be centered over the right pocket of the dress uniform shirts and a designated area on the right chest for uniform jackets. The lettering shall comply with the current lettering used by HFD.

In the event of the individual having a rank change, the individual may choose to have "tags" sewn over the existing rank onto an old shirt. The Airport will provide 75% of costs and 25% will be at ARFF personnel expense.

The lettering shall be 3/8 in. high, in Helvetica type style, with the letters evenly spaced. The member's rank shall be 1/4 in. above the top of the pocket.

The ARFF Personnel's name shall consist of the first initial, a period after the first initial and the full last name shall be 1/4 in. above the rank. All letters shall be in capitals. However, should the ARFF Personnel state that the lower-case letters must be used in order that the name be spelled correctly (i.e., a name such as "DeAguiar", where the "e" is not in caps), the member's name may be spelled using lower case letters where appropriate.

Any question as to the appropriate lettering embroidery style to use or spacing of the letters may be directed to the authorized OIC for clarification.

The embroidered lettering color and shade shall be determined prior to the issuance of the approved purchase order by the OIC.

The Airport reserves the right to add or remove any embroidery required, to include but not limited to name and rank, at no additional cost to the Airport.

Optional Service Stars:

Shall be embroidered directly on to the shirt or jacket if requested, with two (2) points down and centered 1/2 inch above the personnel's name. Stars shall be worn in a straight line and shall be centered and spaced 3/4 inch apart, from center to center. If six (6) or more stars are requested, a second row of stars shall be embroidered with two (2) points down and centered 1/4 in. above the first row of five (5) stars.

Lettering, and/or optional service stars shall be done in yellow for the ranks of Captain and below and gold for all Chief Officers. The Airport will provide 75% of costs and 25% shall be at ARFF personnel expense.

Item No. 1: “Navy” Fire Resistant Duty Uniform Shirt (Short Sleeve)

Men’s 4.5 oz/yd2 Nomex IIIA or approved substitute Fire Fighter Shirt (Short Sleeve).

The Fire Fighter Short Sleeve Shirt shall be a dress style shirt with a front placket using decorative buttons and hidden snap fasteners for the closure to allow for quick removal. The Fire Fighter shirt shall have two military creases on the front of the shirt and three military creases on the back of the shirt.

The shirrtail length shall be proportionate to the shirt size and long enough to allow ARFF personnel to raise their hands above their head and have the shirrtail remain in the trousers. An optional service can be selected by the ordering ARFF personnel to have a longer shirt tail length (2” or longer) and/or proportionate length sleeves for the garment. The charge for this service shall be added to the individual shirt size price and as specified. Adding fabric to an existing garment shall not be acceptable.

Certification and Compliance.

Garment shall be ISO 9001 certified. Fire Fighter shirts made from Nomex IIIA (4.5 oz/yd2), or approved substitute fabrics shall meet or exceed the performance requirements of NFPA 1975, Standard on Emergency Services Work Clothing Elements. These garments shall meet or exceed the requirement of OSHA Standard 1910.269: “Electric Power Generation, Transmission, and Distribution; Electrical Protective Equipment (Maintenance Standard)”, Federal Register, Volume 59, No. 20, and CAL/OSHA General Industry Safety Orders

(GISO), Title 8. The shirt shall be tested in accordance with Federal Test Standard 191, Method 5903.2.

Materials.

The following arc ratings apply to these garments:

<u>Fabric</u>	<u>Nominal wt.</u>	<u>Arc Rating</u>
Nomex IIIA or approved substitute	4.5 oz/yd2 or approved substitute	4.1 cal/cm2 or approved substitute

Fabric:

The shirt shall be manufactured with Nomex IIIA, or approved substitute fabric made from DuPont Nomex IIIA or approved substitute fiber. The fabric shall be treated with a wickable finish to enhance absorbency and improve comfort.

Findings:

The thread size shall be 45/3 or equivalent to ensure adequate seam strength and garment integrity. The color of the thread shall match the fabric. The thread for seaming and stitching shall conform to MIL-T-43636.

Buttons used on the shirt will be made of molded polyester, size 24 ligne.

The snap fasteners shall be heavy-duty industrial grade and made of solid brass with nickel plating. All snaps shall be applied such that no metal from the snaps will be in contact with the skin.

Garment Construction:

Garments shall be constructed to maximize the wear life of the garment. Proper stitching, reinforced stress areas, and the highest quality construction features shall be used. All garment parts must be properly cut to avoid puckering after laundering and to give the best appearance. All stitching must be of proper tension and size.

Stitches and Seams:

All stitching shall conform to Federal Standard 751 (FED-STD-751A). All stitch types shall be sewn with a minimum of 8 and a maximum of 10 stitches per inch. The thread tension shall be maintained to eliminate loose or tight stitching.

Chest Pockets:

Each shirt shall have two chest pockets measuring 5 ½” wide by 6 ¾” deep at the bottom point of the pocket. Both pockets shall have a flap secured with a hook and loop closure. Each pocket shall have a decorative button with the left pocket containing a pencil slot. Pockets and flaps shall be set with double-needle lock stitching. All corners and stress areas shall be reinforced with bartack stitches.

Sleeves:

The sleeves shall be one-piece construction and shall be closed at the underarm and set into the shoulders.

Badge Tab:

The badge tab shall be 1” wide by 2” in length and sewn on the shirt over the left breast pocket. The bottom of the badge tab shall be 7/8” above the breast pocket. The eyelets shall be centered on the tab, approximately 1 1/4” apart. Two eyelets shall be placed to allow the badge, when worn, to hang above the pocket.

Shirt Closure:

The shirt shall have a placket with snap fastener closure. The placket shall be attached to the left side of the closure and shall extend from the collar to the tail of the shirt. The placket shall be reinforced with Nomex non-woven interlining for added stiffening. Six (6) concealed female snaps will be set in the center of the placket; the right side shall have six (6) male snaps set in the center. The left side of the placket shall have five (5) decorative buttons at 24 linge and one button at 20 linge at the collar.

Collar:

The shirt shall contain a 2-piece convertible French style banded collar to enhance the appearance retention of the shirt. The collar and collar band shall be reinforced with Nomex non-woven interlining fused to the fabric for added shape retention. The top of the collar shall have a 20 linge button closure.

For Chief Officers, Captains and Lieutenant collar insignia, collars shall have one (1) eyelet or reinforced hole on each side, which shall be sewn into the center of the shirt collar, 2” from the collar tips.

Yoke:

The yoke shall extend the full width of the back to each set-in sleeve. The yoke shall be double layered and extend straight across the back.

Finishing:

All Nomex IIIA or approved substitute shirts shall be pressed and autoclaved to impart permanent press characteristics to the fabric and the garment.

Sizes and Colors

Color	Stock Size Range
Navy	Chest 38-50, 52-58
Navy	Regular, Long

Labels:

All garments shall bear all labels mandated by the Federal Trade Commission at the date manufacture. Permanent labels shall be sewn into the inside of the garment and include the following information:

Product-specific data (date of manufacture, style number, size, lot number, origin). Warning labels (including product warnings, limitations of use, etc.).

Care and Laundering instructions.

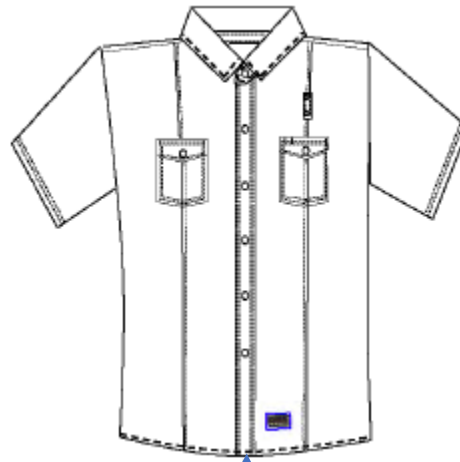
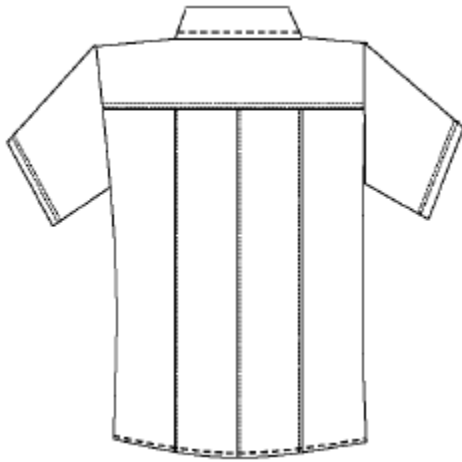
Certifications (if applicable).

Manufacturer’s Guarantee:

Manufacturer shall guarantee that all garments shall be free from workmanship defects resulting from normal wear within one (1) year of purchase for garments laundered per manufacturer’s instructions. Apparel color shifting or fading shall be excluded.

Sample:

Below is a sample of a “Navy” Fire Resistant Duty Uniform Shirts (Short Sleeve).



MOCK BUTTON-DOWN
FRONT WITH SNAP
CLOSURES

Embroidered Name:

As determined by approved purchase order.

Patches:

Attachment of one (1), 4" ARFF shoulder patch herein to be provided by Airport.

The ARFF shoulder patch shall be sewn centered on the left outer sleeve, 1" below the shoulder seam. Patches shall have heat sealed backing to secure threads in place.

The EMR or NREMT or State EMT or Paramedic shoulder patch shall be provided by the State and shall be sewn centered on the right outer sleeve, 1" below the shoulder seam. Patches shall have heat sealed backing to secure threads in place. There shall be no cost to sew said patches onto shirts.

Item No. 2: “Navy” Fire Resistant Duty Uniform Trousers

Men’s 7.5 oz/yd² Nomex IIIA or approved substitute Industrial and Fire Fighter Trousers (also referred to as pants).

Fire Resistant Duty Uniform Pants shall be Navy in color.

Description

The pants shall be designed for durability with triple-stitched, felled outer seams and seat seam. The pants shall have a uniform cut with four (4) deep inverted pockets. The front pockets shall be slash dress style and the back pockets shall be welt design. The waistband shall be fully finished with belt loops and the legs permanently creased.

Certification and Compliance

Pants shall be ISO 9001 certified. Industrial and pleated fire fighter pants made from Nomex IIIA or approved substitute (7.5 oz/yd²) fabrics shall meet the performance requirements of ASTM F-1506; Standard Performance Specification for Flame Resistant and Electric Arc Rated Protective Clothing Worn by Workers Exposed to Flames and Electric Arcs, NFPA 2112; Standard on Flame-Resistant Clothing for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire; and NFPA 1975 Standard on Emergency Services Work Clothing Elements. These garments shall meet or exceed the requirement of OSHA Standard 1910.269: “Electric Power Generation, Transmission, and Distribution; Electrical Protective Equipment (Maintenance Standard)”, Federal Register, Volume 59, No. 20, and CAL/OSHA General Industry Safety Orders (GISO), Title 8. The pants shall be tested in accordance with Federal Test Standard 191, Method 5903.2.

Materials

The following arc ratings apply to these garments:

<u>Fabric</u>	<u>Nominal wt.</u>	<u>Arc Rating</u>
Nomex IIIA or approved substitute	7.5 oz/yd ² or approved substitute	6.6 cal/cm ² or approved substitute

Fabric and Pocketing:

The pants shall be manufactured with Nomex IIIA or approved substitute. The fabric shall be treated with a wickable finish to enhance absorbency and improve comfort. For pocketing and other internal construction fabrics shall be made from Nomex IIIA or approved substitute and shall have a minimum weight of 4½ oz/yd² or approved substitute.

Findings:

The zipper shall contain solid brass hardware (zipper teeth and chain) with a semi-automatic slide. The zipper tape shall be made from Nomex fiber or approved substitute. The thread for all seams and stitching shall be made from Nomex, Nomex III, Nomex IIIA aramid fiber, or approved substitute.

The thread size shall be 45/3 or equivalent to ensure adequate seam strength and garment integrity. The color of the thread shall match the fabric. The thread for seaming and stitching shall conform to MIL-T-43636.

The waist closure shall be a rivet button made of solid brass. The inside of the rivet button shall be separated from the skin with a layer of Nomex fabric or approved substitute.

Garment Construction:

Garments shall be constructed to maximize the wear life of the garment. Proper stitching, reinforced stress areas and the highest quality construction features shall be used. All garment parts must be properly cut to avoid puckering after laundering and to give the best appearance. All stitching must be of proper tension and size.

Stitches and Seams:

All stitching shall conform to Federal Standard 751 (FED-STD-751A). All stitch types shall be sewn with a minimum of 8 and a maximum of 10 stitches per inch. The thread tension shall be maintained to eliminate loose or tight stitching.

Front Pockets:

The pant shall have two slash type pockets sewn into the waistband, extending 9" down and having a 7" opening. The bottom of the pockets shall be reinforced with an additional layer of pocketing 2" deep at the pocket point and reinforced with bartack stitches. The edge of each pocket attached to the pant side seam shall be a minimum of 1" into the pocket and shall be reinforced with an additional layer of pant fabric for aesthetic and strength purposes.

Back Pockets:

The back pockets shall be welt construction with an opening of 5 ½" wide. The pocket shall be 7" wide and 7" deep. The top of the pocket shall set into the waistband. The welt opening shall be set 3" below the bottom of the waistband. A pocket facing of shell fabric extends ½" into the pocket to prevent visibility of the pocket material through the welt. Each side of the welt pocket openings shall be reinforced with bartack stitches. The left pocket shall have a button (size 22 or 24 ligne) and loop closure.

Zipper and Fly:

The right fly shall be made with an additional layer of Nomex fabric or approved substitute and shall be attached to the right front of the pant. The exposed edge shall be sewn to prevent unraveling. The right side of the zipper shall be set into the fly sewn through both layers of the fabric for added reinforcement and shape retention. The left side of the fly shall be fully lined internally for added reinforcement and shape retention. The left side of the zipper shall be stitched through the left pant fabric, the zipper tape and the lining.

The right and left fly shall be joined together at the base of the zipper using two (2) parallel bartack stitches that are sewn through the fly and zipper tape on both sides of the base of the zipper. The fly facing shall continue down into the crotch area to cover all metal parts of the zipper.

Crotch and Seam Assembly:

The crotch shall be formed below the fly at the intersection of the four (4) bottom panels of the pant. The pants shall be assembled in the following order: front and seat center seams, outside leg seams and inside leg seams to form the completed pant.

Finishing:

Autoclaving: All Nomex IIIA or approved substitute pants shall be pressed and autoclaved to impart permanent press characteristics to the fabric and the garment.

Leg Creases: Creases shall be pressed into the centers of the front and back of the pant legs using a hot head press. The creases shall be “Intrak” treated (i.e., treated with a special fabric adhesive) to enhance crease retention.

Color	Stock Size Range
Navy	Waist 28-34, Inseam to 34”
	Waist 35-42, Inseam to 36”
	Waist 44-58, inseam to 36”
	No odd waist after 35”

Labels:

All garments shall bear all labels mandated by the Federal Trade Commission at the date manufacture. Permanent labels are sewn into the inside of the garment and include the following information:

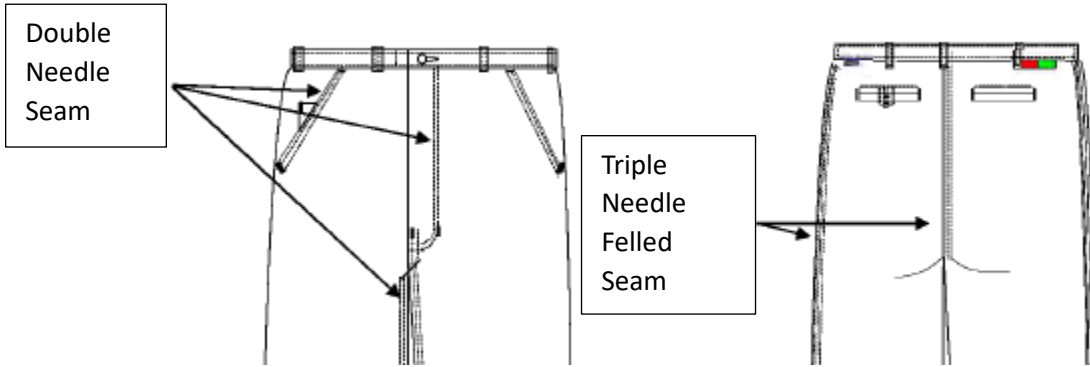
Product-specific data (date of manufacture, style number, size, lot number, origin). Warning labels (including product warnings, limitations of use, etc.).

Care and laundering instructions.

Certifications (if applicable).

Manufacturer's Guarantee:

The Manufacturer shall guarantee that all garments shall be free from workmanship defects resulting from normal wear within one (1) year of purchase for garments laundered per Manufacturer's instructions. Apparel color shifting or fading shall be excluded. Garment shall be produced from a manufacturing facility with a quality system that shall be ISO 9001 certified.



Item No. 3 “Navy” Rescue Cargo Pant:

Men's 7.5 oz./yd² Nomex IIIA or approved substitute Industrial and Fire Fighter Resistant Rescue Trousers (also referred to as pants).

Fire resistant rescue duty uniform pants shall be navy in color.

Description

The pants shall be designed for durability with triple-stitched, felled outer seams, and seat seam. The front pockets shall be slash dress style, and the back pockets shall be welt design with flaps featuring a snap closure system. The legs shall have two (2) cargo pockets on each thigh with flaps featuring a snap closure system. The waistband shall feature side elastic for added comfort with belt loops and the legs shall be permanently creased. The pant legs shall include reinforcement at the knee.

Certification and Compliance

Pants shall be ISO 9001 certified. Pants shall be industrial, pleated, and fire fighter pants made from Nomex IIIA or approved substitute (7.5 oz/yd²) fabrics that are of the most current standards and shall meet or exceed the performance requirements of:

- ASTM F- 1506, Standard Performance Specification for Flame Resistant and Electric Arc Rated Protective Clothing Worn by Workers Exposed to Flames and Electric Arcs.
- NFPA 2112, Standard On Flame-Resistant Clothing for Protection of Industrial Personnel Against Short- Duration Thermal Exposures from Fire.
- NFPA 1975 Standard on Emergency Services Work Clothing Elements.
- These garments shall meet or exceed the requirement of OSHA Standard 1910.269: "Electric Power Generation, Transmission, and Distribution; Electrical Protective Equipment (Maintenance Standard)", Federal Register, Volume 59, No. 20, and CAUOSHA General Industry Safety Orders (GISO), Title 8. Pants shall be tested in accordance with Federal Test Standard 191, Method 5903.2.

Materials:

The following arc ratings apply to these garments:

Fabric	Nominal Wt.	Arc Rating
Nomex IIIA or approved substitute	7.5 oz./yd ² or approved substitute	7 .0 cal/cm ² or approved substitute

Fabric and Pocketing:

The pants shall be manufactured with Nomex IIIA or approved substitute. The fabric shall be treated with a wickable finish to enhance absorbency and improve comfort. For pocketing and other internal construction fabrics shall be made from Nomex IIIA or approved substitute and shall have a minimum weight of 4½ oz/yd².

Findings:

The zipper shall contain solid brass hardware (zipper teeth and chain) with a semi-automatic slide. The zipper tape shall be made from Nomex fiber or approved substitute. The thread for all seams and stitching shall be made from Nomex, Nomex III, Nomex IIIA aramid fiber, or approved substitute.

The thread size shall be 45/3 or equivalent to ensure adequate seam strength and garment integrity. The color of the thread shall match the fabric. The thread for seaming and stitching shall conform to MIL-T-43636.

The waist closure shall be a rivet button made of solid brass. The inside of the rivet button shall be separated from the skin with a layer of Nomex fabric or approved substitute.

Garment Construction:

Garments shall be constructed to maximize the wear life of the garment. Proper stitching, reinforced stress areas, and the highest quality construction features shall be used. All garment parts must be properly cut to avoid puckering after laundering and to give the best appearance. All stitching must be of proper tension and size.

Stitches and Seams:

All stitching shall conform to Federal Standard 751 (FED-STD-751A) or National Standard ASTM D-6193-97. All stitch types shall be sewn with a minimum of 8 and a maximum of 10 stitches per inch. The thread tension shall be maintained to eliminate loose or tight stitching.

Front Pockets:

The pant shall have two (2) slash type pockets sewn into the waistband, extending 9" down and having a 7" opening. The bottom of the pockets shall be made with pocketing and shall be reinforced with an additional layer of pocketing 2" deep at the pocket point. The edge of each pocket shall be attached to the pant side seam. The edge of each pocket shall be a minimum of 11" into the pocket and shall be reinforced with an additional layer of pant fabric for aesthetic and strength purposes.

Back Pockets:

The back pockets shall be welt construction with an opening of 5 ½" wide. The pocket shall be 6 ½" wide and 6 ½" deep. The top of the pocket shall be set into the waistband. The welt opening shall be set 3" below the bottom of the waistband. A pocket facing of shell fabric shall extend 1 ½" into the pocket to prevent visibility of the pocket material through the welt. Each side of the welt pocket openings shall be reinforced with bartack stitches. Each pocket shall have a flap 5 ½" wide and 2" long with snap closure.

Thigh Pockets:

The thigh pockets shall have an opening of 7" wide. The pocket shall be 7" deep. Both pockets shall have a flap with snap closures. Each pocket shall have an expandable pleat on outside edge for added storage.

Zipper and Fly:

The right fly shall be made with an additional layer of Nomex fabric or approved substitute and shall be attached to the right front of the pant. The exposed edge shall be sewn to prevent unraveling. The right side of the zipper shall be set into the fly sewn through both layers of the fabric for added. The left side of the fly is fully lined internally for added reinforcement and shape retention. The left side of the zipper shall be stitched through the left pant fabric, the zipper tape and the lining. The right and left fly shall be joined together at the base of the zipper using two (2) parallel bartack stitches that are sewn through the fly and zipper tape on both sides of the base of the zipper. The fly facing shall continue down into the crotch area to cover all metal parts of the zipper.

Hem:

The hem of the garment shall be ¾" lockstitch.

Crotch and Seam Assembly:

The crotch shall be formed below the fly at the intersection of the four (4) bottom panels of the pant. The crotch shall be formed with a gusset.

Reinforced Knee:

The pant legs shall include double reinforcement at the knee for durability.

Finishing:

Autoclaving: All Nomex IIIA or approved substitute pants shall be pressed and autoclaved to impart permanent press characteristics to the fabric and the garment.

Leg Creases: Creases shall be pressed into the centers of the front and back of the pant legs using a hot head press. The creases shall be "lintrak" treated (i.e., treated with a special fabric adhesive) to enhance crease retention.

Color	Stock Size Range
Navy	Waist XS, Inseam to 36" Waist S-XL, Inseam to 36" Waist 2XL-4XL, Inseam to 36"

Labels:

All garments shall bear all labels mandated by the Federal Trade Commission at the date of manufacture. Permanent labels shall be sewn into the inside of the garment and include the following information:

Product-specific data (date of manufacture, style number, size, lot number, origin).

Warning labels (including product warnings, limitations of use, etc.).

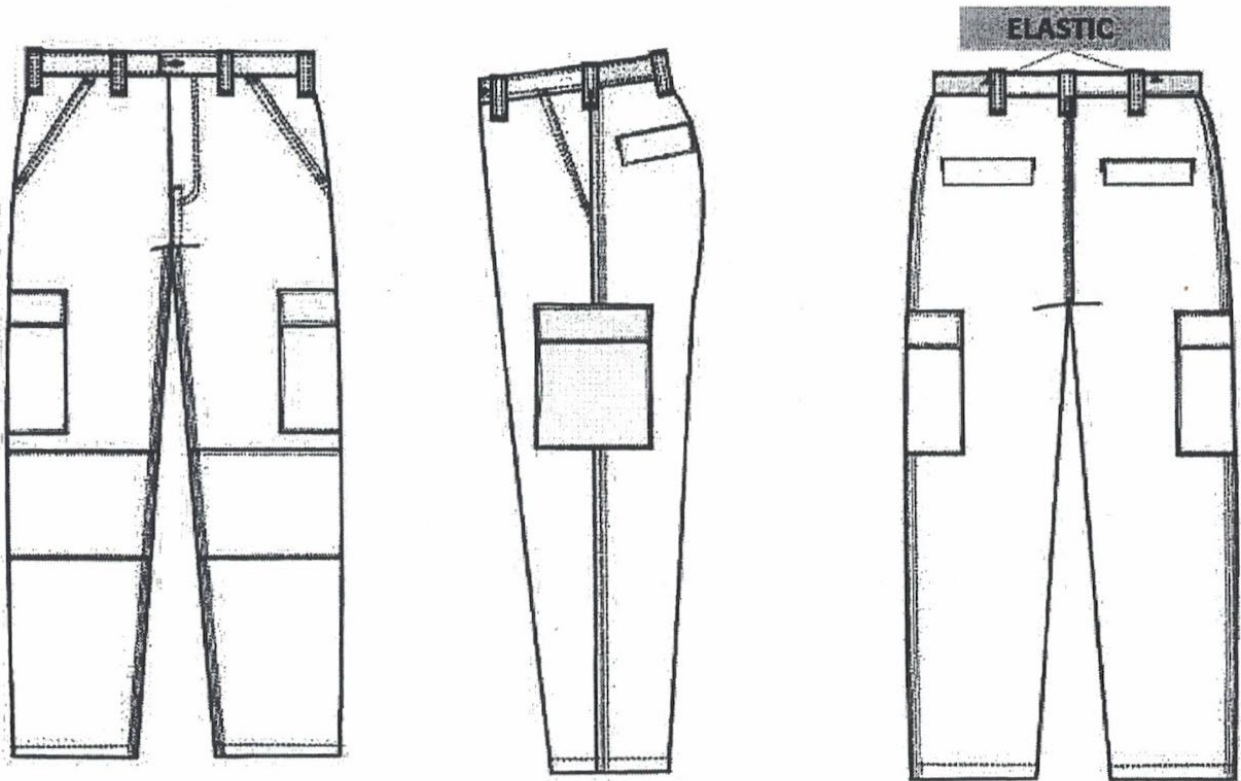
Care and laundering instructions.

Certifications (if applicable).

Manufacturer's Guarantee:

Manufacturer shall guarantee that all garments shall be free from workmanship defects resulting from normal wear within one (1) year of purchase for garments laundered per Manufacturer's instructions. Apparel color shifting or fading excluded.

Garment shall be produced from a manufacturing facility with a quality system that shall be the most current ISO 9001 certified.



Item No. 4 “White” Knit Duty Shirt

The item being offered shall be made of a fabric that is 100% polyester with a minimum 5.5 oz. per sq. yard, tropical weave, permanent nano wicking technology.

Knit duty uniform shirts shall be white in color.

Mesh Underarm Vents

The shirt shall have two (2) box-pleated pockets with scalloped pocket flaps with Velcro or approved substitute, closures.

The left pocket flap shall have a slot for pen.

Communications wire openings, mic loops

Concealed zipper closure with false button front.

Size and Color:

Color	Stock Size Range
White	S-4XL
White	Regular

A badge tab shall be made from a strip of fabric, identical to the shirt, and measuring 1” wide x 2½” long. The badge tab shall be sewn vertically centered above the top of the center of the left breast pocket. The bottom of the tab shall be ½” above the breast pocket. The eyelets shall be centered on the tab and approximately 1¼” apart.

For collar insignia, one (1) eyelet or reinforced hole shall be on each side, which is sewn into the center of the shirt collar, 2” from the collar tips.

Embroidered Name:

As determined by approved purchase order.

Patches:

Attachment of one (1), 4” ARFF shoulder patch herein to be provided by Airport.

The ARFF shoulder patch shall be sewn centered on the left outer sleeve, 1” below the shoulder seam. Patches shall have heat sealed backing to secure threads in place.

Item No. 5: Chiefs Pants: Horace-HS2149

Fabric: Gabardine Weave, 100% Polyester / Visa Finish with Solarban Technology.

Finish: Moisture Management, Soft Hand and Permanent Soil Release Fabric.

Color: Dark Navy

Closure: Brass Ratcheting Zipper, Crush Proof Hook and Eye Closure with a French Fly Tab.

Pocket: Quarter-Top Front Pockets, Double Welt Topstitched Back Pockets with Triangle Bartack and Button Tab on Left Pocket.

Waist Band: 2” Cool Flex Waistband, ¾” Lined Belt Loops.

Other: Bartacks at all stress points and crotch lining

Item No. 6: “Navy” Duty Uniform Base Layer Fire Resistive T-Shirt.

The shirt shall be navy in color, made with a 5.0 oz/yd² TechT4 fabric or approved substitute, a tapered fit, and a fully-finished ribbed collar.

Certification and Compliance:

Manufacture shall be ISO 9001 certified. The garment shall meet the following performance requirements:

ASTM F-1506 specification for “Textile Materials for Wearing Apparel for Use by Electrical Workers Exposed to Momentary Electric Arc”; OSHA Standard 1910.269: “Electric Power Generation, Transmission, and Distribution”; and CAL/OSHA General Industry Safety Orders (GISO), Title 191A, Method 5903.2.

Materials:

The following arc ratings apply to these garments:

<u>Fabric</u>	<u>Nominal Wt.</u>	<u>Arc Rating</u>
TechT4 or approved substitute	5.0 oz/yd ² or approved substitute	5.8 ATPV or approved substitute

The base layer shall be manufactured with TechT4 or approved substitute knit fabric of 48% Modacrylic, 37% Lyocell, 15% Nylon.

Findings:

The thread size shall be 45/3 or equivalent to ensure adequate seam strength and garment integrity. The color of the thread shall match the fabric. The thread for seaming and stitching shall conform to MIL-T-43636.

Garment Construction:

Garments shall be constructed to maximize the wear life of the garment. Proper stitching, reinforced stress areas, and the highest quality construction features shall be used. All garment parts must be properly cut to avoid puckering after laundering and to give the best appearance. All stitching must be of proper tension and size.

Stitches and Seams:

All stitching shall conform to National Standard ASTM D-6193-97. All stitch types shall be sewn with a minimum of 8 and a maximum of 10 stitches per inch. The thread tension shall be maintained to eliminate loose or tight stitching.

Sleeves:

The sleeves shall have a hemmed cuff.

Printing:

Printing shall be done in lemon yellow colored ink, matching the existing shade used by the HFD. The logo shall be screened with a clear inking design (no running or overlapping of the ink into the design). "Flash curing" or other acceptable procedure shall be done to prevent the dark background from appearing in the printing/logo.

Warranty:

In addition to adhering to the warranty described below, the Contractor shall have warranty for silk screening for not less than one (1) year. This warranty shall cover fading, peeling, cracking, and running of the silk screen ink.

Front of Shirt:

The shirt to be provided shall have the word "FIRE", silk screened in 2" letters, centered on the front. Letters shall be outlined with 1/8" borders.

The word "FIRE" shall be silk screened in 2" letters, outlined with 1/8" borders, and centered on the back with the words "AIRCRAFT RESCUE FIREFIGHTING" DEPARTMENT OF TRANSPORTATION" "AIRPORTS DIVISION" in 5/8" letters below the word "FIRE".

Sleeve of Shirt:

A 3" stencil of the ARFF shoulder patch shall be silk screened and centered on the left outer sleeve with the bottom of the shoulder patch being 1½" from the hemline.

Stock Sizes and Colors

<u>Color</u>	<u>Stock Size Range</u>
Navy	S, M, L, XL, 2XL, 3XL, 4XL

Labels:

All garments bear all labels mandated by the Federal Trade Commission at the date of manufacture. Permanent labels are sewn into the inside of the garment and include the following information:

Product-specific data (date of manufacture, style number, size, lot number, origin). Warning labels (including product warnings, limitations of use, etc.). Care and laundering instructions. Certifications (if applicable).

Manufacturer's Guarantee:

Manufacturer shall guarantee that all garments will be free from workmanship defects resulting from normal wear within one (1) year of purchase for garments laundered per Manufacturer's instructions. Apparel color shifting or fading shall be excluded.

Item No. 7: "Navy" Duty Uniform Jacket.

Uniform jackets shall be navy in color and include, but not be limited to the following:

Constructed entirely from a heavy duty, 65% Dacron polyester and 35% cotton twill blend or approved substitute. The fabric shall be acid-resistant. A bi-swing back for added mobility. The following jacket sizes shall be available: Small (S), Medium (M), Large (L), Extra Large (XL), Extra Extra Large (2XL), Extra Extra Extra Large (3XL) and Extra Extra Extra Extra Large (4XL).

An optional service can be selected by the ordering ARFF personnel to have a longer jacket tail length (2" or longer) and/or proportionate length sleeves for the garment. The charge for this service shall be added to the individual shirt size cost. Adding fabric to an existing garment shall not be acceptable.

The Contractor shall also have jacket liners compatible to the jackets described herein, available to purchase. The Airport will provide 75% of costs and 25% shall be at ARFF personnel expense.

Patches:

Attachment of one (1), 4", ARFF shoulder patch specified herein to be provided by Airport.

The ARFF shoulder patch shall be sewn centered on the left outer sleeve, 1" below the shoulder seam. Patches shall have heat sealed backing to secure threads in place.

Item No. 8: “Navy” Duty Uniform Cotton T-Shirt (Short Sleeve).

The furnished uniform cotton t-shirts shall be navy in color.

Constructed from fabric that is a minimum 6.0 oz., 100% cotton.

The following shirt sizes: Small (S), Medium (M), Large (L), Extra Large (XL), and Extra Extra Large (2XL), Extra Extra Extra Large (3XL), Extra Extra Extra Extra Large (4XL).

Printing:

Printing shall be done in lemon yellow colored ink, matching the existing shade used by the HFD. The logo shall be screened with a clear inking design (no running or overlapping of the ink into the design).

"Flash curing" or other acceptable procedure shall be done to prevent the dark background from appearing in the printing/logo.

Warranty:

In addition to adhering to the warranty described below, the Contractor shall warranty the silk screening for not less than one (1) year. This warranty shall cover fading, peeling, cracking, and running of the silk screen ink.

Front of Shirt:

The shirt to be provided shall have the word “FIRE”, silk screened in 2” letters, centered on the front. Letters shall be outlined with 1/8” borders.

For Lieutenants and Captains, the rank of “LIEUTENANT”, “CAPTAIN”, shall be silk screened in 3/4” lettering above the letter “E” in “FIRE”.

Back of Shirt:

The word “FIRE” shall be silk screened in 2” letters, outlined with 1/8” borders, and centered on the back with the words “AIRCRAFT RESCUE FIREFIGHTING” DEPARTMENT OF TRANSPORTATION” “AIRPORTS DIVISION” in 5/8” letters below the word “FIRE”.

Sleeve of Shirt:

A 3” stencil of the ARFF shoulder patch shall be silk screened and centered on the left outer sleeve with the bottom of the shoulder patch being 1½ inch from the hemline.

Item No. 9: “Navy” Duty Uniform Cotton T-Shirt (Long Sleeve).

Uniform cotton t-shirts (Long Sleeve) Options for NAVY Color.

Constructed from fabric that is a minimum 6.0 oz., 100% cotton.

The following shirt sizes: Small (S), Medium (M), Large (L), Extra Large (XL), and Extra Extra Large (2XL), Extra Extra Extra Large (3XL).

Printing:

Printing shall be done in lemon yellow colored ink for navy shirt & white colored ink for red shirt, matching the existing shade used by the HFD. The logo shall be screened with a clear inking design (no running or overlapping of the ink into the design).

"Flash curing" or other acceptable procedure shall be done to prevent the dark background from appearing in the printing/logo.

Warranty:

In addition to adhering to the warranty described below, the Contractor shall warranty the silk screening for not less than one (1) year. This warranty shall cover fading, peeling, cracking, and running of the silk screen ink.

Front of Shirt:

The shirt to be provided shall have the word “FIRE”, silk screened in 2” letters, centered on the front. Letters shall be outlined with 1/8” borders.

Back of Shirt:

The word “FIRE” shall be silk screened in 2” letters, outlined with 1/8” borders, and centered on the back with the words “AIRCRAFT RESCUE FIREFIGHTING” DEPARTMENT OF TRANSPORTATION” “AIRPORTS DIVISION” in 5/8” letters below the word “FIRE”.

Sleeve of Shirt:

A 3” stencil of the ARFF shoulder patch shall be silk screened and centered on the left outer sleeve with the bottom of the shoulder patch being 4 inches from the shoulder.

Item No. 10: “Navy” Duty Uniform Board Shorts

Board shorts color – NAVY.

Board shorts shall include, but not be limited to the following:

Constructed from fabric that is a quick drying material, 92% polyester and 8% spandex.

A front closure that is black Velcro or approved substitute and be a minimum of 1” wide and approximately 6” long.

Four (4) enamel coated, metal eyelets for fastening by an attached 100% nylon lace, black in color, with a minimum 5/8” aglet.

A waistband measuring approximately 1½” wide.

Shorts shall have cargo pocket that has an external pocket flap. Pocket shall be a minimum 5” x 5” and shall be professionally sewn on the right leg. The pocket flap shall be provided with a minimum 1” wide Velcro or approved substitute, that is a minimum 3-1/2” long.

Shorts shall have a minimum of 4” heavy-duty elastic loop key holder, sewn into the inside of the pocket. Pocket shall have a mesh lining to drain sand.

The stitching shall be done using Navy color thread.

Size and Color:

Color	Stock Size Range
Navy	Waist 28-54, Length: 19” or approved substitute.

Patch:

Shorts shall have an attachment of one (1), 3” ARFF patch as specified herein to be provided by the Offeror.

Patch shall be sewn on the left leg with the bottom of the patch 1 1/2” above the leg hem, 1 1/2” from the left leg seam, and shall have heat sealed backing to secure threads in place.

Item No. 11: “Navy” Duty Uniform Athletic Shorts

Uniform athletic shorts shall include, but not be limited to the following:

The item supplied shall be made of a fabric that is polyester and shall be quick drying.

Shorts shall have an elastic waist band 1½” wide with a sewn-in drawstring.

Short shall have an inseam of 9” or approved substitute.

Shorts shall have two (2) side split pockets, one (1) on each of the front sides of the athletic shorts. The pocket shall have an approximately 6” slit opening. All stress points shall have bartack enforced, “Z” stitch corners.

The following sizes shall be available: Small (S), Medium (M), Large (L), Extra Large (XL), Extra Extra Large (2XL), Extra Extra Extra Large (3XL).

The stitching shall be done using Navy color thread.

Patch:

The shorts shall have attachment of one (1), 3” ARFF patch as specified herein to be provided by the Offeror.

Patch shall be sewn on the left leg with the bottom of the patch 1 1/2” above the leg hem and shall have heat sealed backing to secure threads in place.

Item No. 12: Hat, Dress for Firefighters, Lieutenants, Captains, and Chief Officers

R-8B Bell Crown Cap with Velveteen Band

Black or White vinyl

Full Black velveteen band

Black shiny or Embroidered visor

Black, Silver or Gold front straps

Silver or Gold FD buttons

Numerical sizing

Made in U.S.A.

Customizable options for additional fabric selections.

Item No. 12a: Caps, for Firefighters, AFEOs, Lieutenants, Captains, and Chief Officers

Flexfit, Navy Blue

3” DOT ARFF patch, centered on front

Sizes Small-Medium, Large-Xlarge

Snapback Caps

Navy Blue

3” DOT ARFF patch, centered on front

The Airport will provide 75% of costs and 25% shall be at ARFF personnel expense.

Item No. 13: Black Leather, Uniform Belt 1.5”

Postal/government authorized or approved substitute.

Black Color

Plain finish

Sliver buckle.

1 1/2" wide

Made with top grain leather.

Item No. 14: "Black" Clip on Tie

The clip-on tie shall have, but not limited to the following:

100% polyester and fully lined.

Black in color, 20" in length, and 3.75" in width.

Item No. 15: Patches, State of Hawaii DOT Airports ARFF Patch

The following patches shall be available:

4” ARFF Shoulder Patch, as per “Exhibit A” sample.

3” ARFF Patch as per “Exhibit B” sample.

Prior to the award, the apparent low Offeror shall submit exact sample(s) of the embroidery work and exact samples of each of the patches to be utilized - the ARFF shoulder patch, and the shorts patch – for final acceptance by ARFF. This must be completed prior to approval of the contract award, and within seven (7) calendar days of the request, at no additional cost to the Airport. The Offeror shall not proceed with any further production of embroidery or patches without ARFF approval. Failure to provide these items to the level of quality and workmanship expected by ARFF may be cause for the low Offeror to be rejected from award consideration.

Patch shall resist fraying, discoloration, and de-lamination for a minimum of three (3) years from purchase.

Contractor shall guarantee the quality of workmanship and design throughout the term of the award.



Exhibit A, ARFF Shoulder Patch



Exhibit B, ARFF Patch

Item No. 16: Uniform Badges, State of Hawaii DOT Airports.

Badges:

Member Badge - Blackinton B652-HA Rhodium Finish, Applied Panel Badge w/ Safety Catch, Blue DR 6-17 Block Lettering, Incised Panels, Regular Enamel, Full Color Seal State of Hawaii w/ Blue DR 6-17 Rim.

Panel #1 – MEMBER

Panel #2 – AIRCRAFT RESCUE FIREFIGHTING

Panel #3 – FULL COLOR STATE OF HAWAII SEAL w/ BLUE RIM (DR-17)

Panel #4 – HI.

Lieutenant Badge - Blackinton B652-HA Rhodium Finish, Applied Panel Badge w/ Safety Catch, Blue DR 6-17 Block Lettering, Incised Panels, Regular Enamel, Full Color Seal State of Hawaii w/ Blue DR 6-17 Rim.

Panel #1 – LIEUTENANT

Panel #2 – AIRCRAFT RESCUE FIREFIGHTING

Panel #3 – FULL COLOR STATE OF HAWAII SEAL w/ BLUE RIM (DR-17)

Panel #4 – HI.

Captain Badge - Blackinton B652-HA Rhodium Finish, Applied Panel Badge w/ Safety Catch, Blue DR 6-17 Block Lettering, Incised Panels, Regular Enamel, Full Color Seal State of Hawaii w/ Blue DR 6-17 Rim.

Panel #1 – CAPTAIN

Panel #2 – AIRCRAFT RESCUE FIREFIGHTING

Panel #3 – FULL COLOR STATE OF HAWAII SEAL w/ BLUE RIM (DR-17)

Panel #4 – HI.

Chief Officer Badge– Blackinton B544- VHB KK® One Piece Badge w/ Safety Catch, Black Block Lettering, Incised Panels, Hard Enamel, Three Crossed Bugles.

Option for Red Enamel Background for Center Seal.

Panel #1 – FIRE CHIEF

Panel #2 – AIRCRAFT RESCUE FIREFIGHTING

Panel #3 – THREE CROSSED BUGLES

Panel #4 – STATE OF HAWAII

Item No. 17: Collar Pins, State of Hawaii DOT Airports.

Collar Pins: 15/16” with V452 Plunger

Lieutenant

(Single Bugle) – Rhodium (Silver)

Captain

(Parallel Bugles Vertical) – Rhodium (Silver)

Chief Officer

(Three Crossed Bugles) – Karat Klad (24KK All Gold)

Option for Red Enamel Background.

Item No. 18: Dress Cap Shield, State of Hawaii DOT Airports

Dress Cap Shield: 1 5/8" with Screw Post & Stay Pin

Firefighter

(FF Scramble) – Rhodium (Silver)

Lieutenant

(Single Bugle) – Rhodium (Silver)

Captain

(Parallel Bugles Vertical) – Rhodium (Silver)

Chief Officer

(Three Crossed Bugles) – Karat Klad (24KK All Gold)

Item No. 19: Name Plate, State of Hawaii DOT Airports

Name Plate: 3/4" x 3" with clutch back attachment.

Firefighter

Name: First Initial, Last Name

Rank: Firefighter

Color: Silver, Polished w/ AIRPORT Maltese Cross

Equipment Operator

Name: First Initial, Last Name

Rank: Equipment Operator

Color: Silver, Polished w/ AIRPORT Maltese Cross

Lieutenant

Name: First Initial, Last Name

Rank: Lieutenant

Color: Silver, Polished w/ AIRPORT Maltese Cross

Captain

Name: First Initial, Last Name

Rank: Captain

Color: Silver, Polished w/ AIRPORT Maltese Cross

Chief Officer

Name: First Initial, Last Name

Rank: Fire Chief

Color: 24k gold plated w/ AIRPORT Maltese Cross or (Three Crossed Bugles)

Item No. 20: “White” Dress Uniform “Class A” Long Sleeve Shirt

Fabric: 100% Polyester Tropical Weave | Weight: 5.5 oz./sq. yd.

Zippered Shirt with False Button Front

Chest Pockets with Dual – Access Utility Compartments and Hook & Loop Closures.

Flex Underarm Mesh Vents; Dual Communications wire access openings inside seams.

Functional Epaulets & Collar Holes.

Embroidered Name: (As determined by approved purchase order)

Patches: (As determined by approved purchase order)

Attachment of one (1), 4” ARFF shoulder patch herein to be provided by Airport.

The ARFF shoulder patch shall be sewn centered on the left outer sleeve, 1” below the shoulder seam. Patches shall have heat sealed backing to secure threads in place.

Item No. 21: “Class A” Coat

ELBECO 13750, or Equivalent

Double Breasted - Midnight Navy

Description: 55% Polyester / 45% Worsted Wool, 2 Ply Serge Weave, 8.5 oz. / sq yard. Full Satin Lining, Shoulder Pads, and Lined Peaked Lapels, 3 Buttons per vertical row... Silver or Gold (“FD”), 2 Sleeve Buttons per sleeve – “FD”, Badge Tab Left Chest.

The ARFF shoulder patch shall be sewn centered on the left outer sleeve, 1" below the shoulder seam. Patches shall have heat sealed backing to secure threads in place.

Chief Officer (District Chief)

Gold “FD” Buttons w/ ARFF Patch on Left Outer Sleeve, 1” from shoulder seam, 4 Gold Rank Stripes completely around on both sleeves, Gold Stars for years of service on Left Sleeve.

Item No. 22: “Class A” Pants

ELBECO E1360RN or Equivalent

Color: DARK NAVY

Description: 55% Polyester / 45% Worsted Wool, 2-Ply Serge Weave, 8.5 oz. / Sq yd. 4 Pocket-Extra Deep Quarter-Top Front Pockets, and Two Back Pockets. Flex Waist Band Integrated with ELBECO’s Grip Strip to hold pants in. Bar Tacks at key stress points with triple stitched crotch, double-ply crotch lining.