

The Nation's Combat Logistics Support Agency





### **TEAM POCs**

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Thomas Darcy	IST Supervisor/Contracting Officer	215-737-3068	Thomas.Darcy@dla.mil
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Tiffany Savage	Acq Specialist	See E-Mail	Tiffany.Savage@dla.mil
Shane Moore	Acq Specialist	See E-Mail	Shane.Moore@dla.mil





- Jackets
  - Flyers 36/P & 45P (Sage & Tan)
  - Leather A-2 & G-1 (USAF & USN)
  - Leather, Surface Warfare Officer (USN)
  - Cold Weather Shipboard Jacket
- Multi-Climate Protection System (MCPS)
  - Shirts/Drawers (Silk-Wt, Mid-Wt, Heavy-Wt
  - Overalls, Vest, Jacket Liners





#### **Special Purpose Clothing**

- Army Aircrew Combat Uniform (A2CU)
- Otto Fuel Protective Items
- Wildland Firefighting Shirt, Trousers
- Flight Deck Jerseys/ Flight Deck Trousers (New)
- Anti-Flash Hood
- Neck Gaiter
- Advanced Combat Shirt and Advanced Combat Pant



#### **Special Purpose Clothing**

- Flyers 27/P (Sage & Tan)
- Improved Combat Vehicle Crewmen (ICVC)
- Utility Green Shipboard / Blue Coverall
- Navy IFRV Coveralls
- Fuel Handlers Coveralls
- Mechanics Coveralls
- Coverall with Hood & Booties
- Disposable Coverall
- Personal Protective Equipment (Various Items)





### **Special Purpose Obligations**

- Material Obligations
  - FY 20 Actual \$143.7 Million
  - FY 21 Actual \$191.9 Million
  - FY 22 Actual \$103.4 Million

- SALES (@ Standard)
  - FY 20 \$217.2 Million
  - FY 21 to date \$678.1 Million (Majority for COVID PPE)
  - FY 22 \$140.8 Million





#### Chemical Protective Clothing Product Line Overview

- Overboots, Molded, Lightweight, Chemical/Biological Protective (MALO)
- Gloves Butyl, JB2GU, Glove Inserts
- Toxicological Agent Protective Items (TAP)
- Joint Service Lightweight Integrated Suit Technology (JSLIST)
- Joint Protective Aircrew Ensemble (JPACE), Lightweight Joint Protective
   Air Crew Ensemble (LJPACE) Male & Female and Repair Kits
- Chemical Protective Helmet Covers
- Carrying Bag (for JSLIST)





#### **Chem Product Line Overview**

- Items currently procured are for Warfighters only.
- Items subject to International Traffic in Arms Regulations (ITAR).
- DLA two major customers:
- Individual Chemical Equipment Management
   Program (ICEMP). Office provides centralized
   management and funding of U.S. Army chemical individual
   protective equipment.
- Military Service War Reserve Stocks.





#### **Chemical Obligations/Sales**

- Material Obligations
  - FY 20 Actual \$33 Million
  - FY 21 Actual \$33.8 Million
  - FY 22 Actual \$42.4 Million

- SALES (@ Standard)
  - FY 20 \$122.6 Million
  - -FY 21 \$46.8 Million
  - -FY 22 \$83.8 Million





# PRODUCT DEMONSTRATION MODELS (PDMs)

- Product Demonstration Models
  - Product Demonstration Models (PDMs) are required to be submitted through traceable means via the U.S. Postal Service or a Commercial Carrier (Example: FedEx, Airborne, UPS, DHL, Emery). Due to COVID-19, in-person delivery of PDMs by offerors is not authorized. The Tracking Number shall be provided as part of the DIBBS electronic upload proposal submission.
  - PDMs are to be delivered between 8:00 a.m. and 1:00 p.m. E.S.T., Monday through Friday, except for legal federal holidays as set forth in 5 USC 6103. Packages must be plainly marked ON THE OUTSIDE OF THE CARRIER'S PACKAGE with the solicitation number, date, and time set forth for receipt of offers as indicated in block 9 of the Standard Form 33. Ultimately, it is the offeror's responsibility to ensure that its PDMs are received at the correct location at the correct time. Failure to do so may result in the offeror's proposal being deemed untimely and not considered further for the award per FAR 52.215-1 Instruction to Offerors Competitive Acquisitions.





# PRODUCT DEMONSTRATION MODELS (PDMs)

– All PDMs shall be sent to the following address:

DLA Troop Support ATT: BUYERS NAME Building 3-A-4422 700 Robbins Avenue Philadelphia, PA 19111

– Effective 01 October 2021, all carriers/individuals attempting to deliver any packages/proposals/PDMs/First Articles/etc. to DLA Troop Support shall have present credentials that meet Real ID requirements in order to gain access to make a delivery. NO EXCEPTIONS SHALL BE MADE.





#### **Upcoming Opportunities**

- Future solicitations currently being planned. Look at beta.SAM.gov for future details and Market Research Surveys that will help in the development of our Acquisition Strategies.
- 1. JB2GU Solicitation 12/22
- 2. MALO Solicitation 1/23
- 3. LJPACE/JPACE TAD 4/23
- 4. Shipboard Jacket TAD 12/22
- 5. Coverall, Shipboard, Green TAD 4/23
- 6. Coverall, Shipboard, Blue TAD 6/23
- 7. Flight Deck Jersey Solicitation 12/22
- 8. ACS Solicitation 1/23
- 9. 27P Coverall Solicitation Spring 2023



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# **DLA Clothing & Textiles** Flight / Safety Jennifer Scarpello IST Chief Safety Gear Team November 17, 2022





#### **Product Line Overview**

- Safety Team Stats
  - Overall manage approx. 900 different items
  - Items include:
    - Flyers Helmets and components (Visors, Chin Straps, ...)
    - Anti-G Garments
    - Anti-Exposure Garments
    - Ballistic Helmets and components (Retention Systems, Pad (Suspension) Systems, Covers)

#### Sales

- FY 22 \$66.2M
- FY 21 \$67.7M
- FY 20 \$82.0M
- FY 19 \$79.0M





## **Upcoming Opportunities**

- Airsave Vest & Accessories Small Business Set-Aside (Vest, panels, pocket, mount) Fixed Quantity – Solicitation Issue December 2022
- Flight Deck Helmet Small Business Set-Aside 5-year Tier Indefinite Delivery, Indefinite Quantity (IDIQ) – Solicitation Issue December 2022
- Advanced Technology Anti-G Suit 22/P Full & Open 4year Tier Indefinite Delivery, Indefinite Quantity (IDIQ) – Solicitation Issue January 2023





### **Upcoming Opportunities**

- Air Solider System (AIR SS) Primary Survival Gear Carrier (PSGC) Vest – Full & Open – Fixed Quantity (1,200 units) – Solicitation Issue 1Q2023
- Socks, Flyers Anti 86P / 87P Full & Open Solicitation Issue 2Q2023
- Crew Restraint Tether Assembly (CRTA) Full & Open -Solicitation Issue 3Q2023





#### **Safety Team Points of Contact**

- Michael Medora: Division Chief
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  - **215-737-3274**
- Jennifer Scarpello: IST Supervisor
  - Jennifer.scarpello@dla.mil
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- Dan Price: Contracting Officer
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Questions





# AF Uniform Office Flight Duty Uniform Programs

**JAPBI Nov 2022** 

Stephanie Weatherhead
Air Force Uniform Office
Clothing Designer
stephanie.weatherhead@us.af.mil



## **Maternity Overview**



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#### MATERNITY DEVELOPMENT OVERVIEW

- To provide maternity flight suits for all pregnant aircrew across the AF & Sister
   Services
- Address issues with safety, comfort, & improved performance for pregnant aircrew through pregnancy & post-pregnancy (total of 18 months) allowing them to maintain current flight status & accomplish mission
- Create a Government owned solution

## PHASE I INTERIM SOLUTION

- No current solution available
- Modify the current 27/P for maternity fit until permanent solution is available
- Limitations of modifying existing uniform

#### COMPLETE

# PHASE II 1 PC PERMANENT SOLUTION

- Development of the onepiece MFDU
- Multi-Service Common Solution

# PHASE III 2 PC PERMANENT SOLUTION

- Development of a two-piece version of A2CU/A2CU-F
- Multi-Service Common Solution
- Requires fabric development
- Design modifications required to pass burn testing



## **Female Manikin Development**





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#### First Female Pyro Burn Manikin

Completed December 2020



Female Styrofoam Prototype



Dressed Styrofoam Prototype



Sensor Placement



Final Female Pyro-Manikin



## Franny "The Female Manikin"





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#### Franny was designed with a removable front pregnancy panel, reflecting the core maternity specs of the bust & belly

Note: Burn testing is not pass or fail, but based on survivability, which is further analyzed by the Engineering Team for Safe-to-Fly & Air Worthiness Approvals.









Female Pyro

Female Pyro

**Maternity Pyro** 



## MFDU Design

AIR FORCE LONG

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# MFDU DESIGN Phase II

- Utilized fabric & design from current 27/P (Nomex®/Kevlar®/P-140 blend)
  - Known testing and performance results
  - Creates consistency in field
- Sizing was converted to alpha to address low demand
- Updated design & fit through bodice, belly, & hips to accommodate the maternity form
- Waist tabs allow for adjustability to accommodate multiple stages of pregnancy



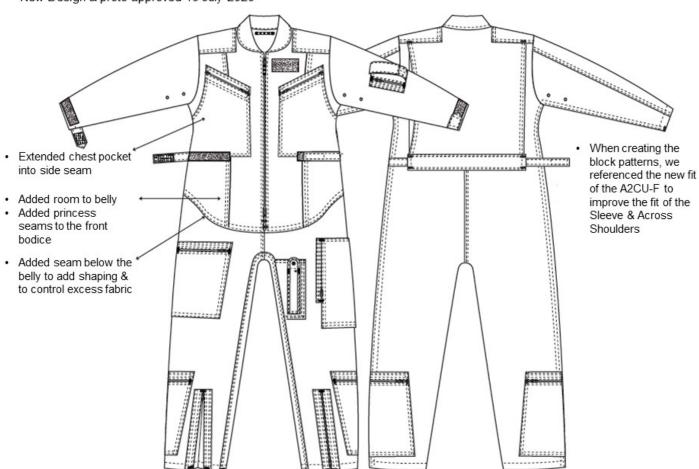
#### **MFDU Illustrations**



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#### Maternity Flight Suit - New Design

New Design & proto approved 15 July 2020





## **Maternity A2CU Design**





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#### **OVERALL DESIGN**

#### Phase III

- Utilized fabric & design from current A2CU/A2CU-F
  - Known testing & performance results
  - Creates consistency in field
- Designed to accommodate room in belly & hips without creating a large overall appearance
- Safe-to-Fly Flash Flame requirements
  - Cinch bottom hem with bungee cord & barrel lock to avoid chimney effect
  - Tuck extra cording into interior hook & loop pocket to avoid snag hazard

#### **COAT DESIGN**

- Princess seaming for shape
- Longer length for growth
- Bungee cord with barrel lock at bottom hem for safety
- All pockets as per A2CU-F except for Microclimate Cooling Garment (MCG) opening, which was removed due to garment real estate

#### TROUSER DESIGN

- Trouser contains FR stretch belly panel with elastic waistband, which accommodates all stages of pregnancy
- All pockets remain as per A2CU-F except for the side hanging hip pocket closure (A2CU-F has two pieces of hook/loop closure, whereas the Maternity A2CU has one)



## **Maternity A2CU Design Cont.**





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#### **Final House Proto of Maternity A2CU**







BELLY PANEL FRONT

BELLY PANEL SIDE

BELLY PANEL BACK

**FRONT** 

SIDE

**BACK** 

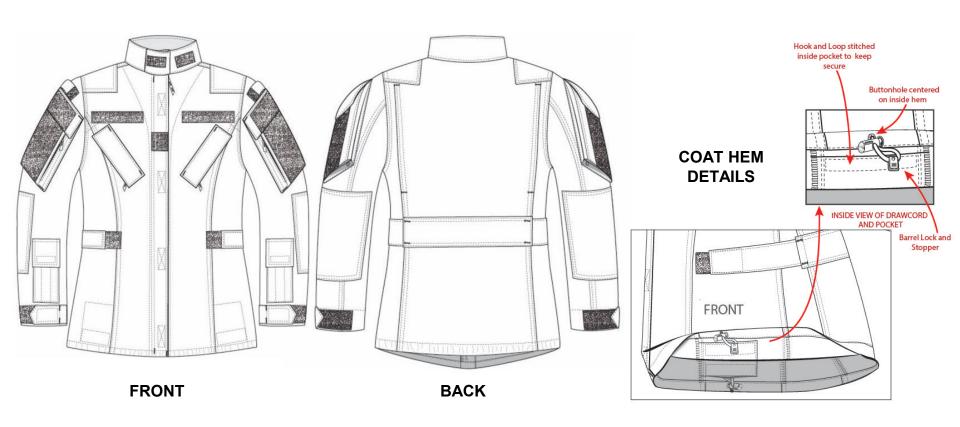


## **Maternity A2CU Coat**

# Illustrations AFLCMC... Providing the Warfighter's Edge







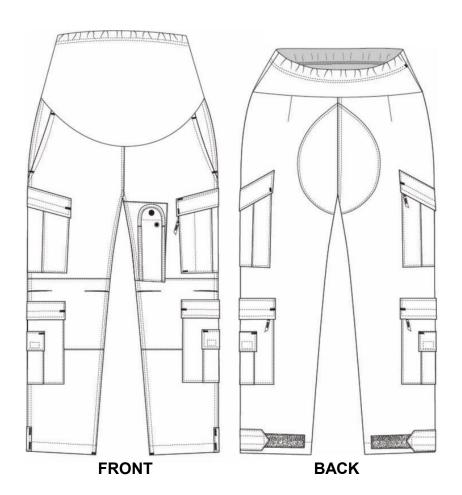


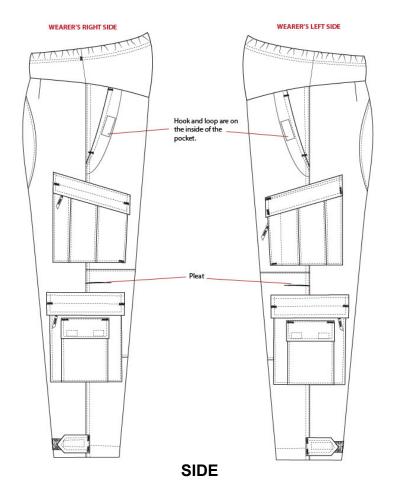
## **Maternity A2CU Trouser**

# Illustrations AFLCMC... Providing the Warfighter's Edge











## **Way Forward**

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## **Design & Development**

- New Maternity Uniforms
  - > Space Force
- Maternity Continuous Product Improvements
  - > Service Dress: Skirt
  - Mess Dress: Slacks
  - ➤ Maternity Ensemble: Dress, Skirt, Coat, Slacks







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# AF Uniform Office Heated Flight Suit Uniform Programs

**JAPBI Nov 2022** 

Mr. Donald R. Lee

Program Manager/ Clothing & Textiles Domain Lead

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## **AF Heated Flight Clothing (HFC)**





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#### Background:

- Need heated flight clothing items to protect aviators in extreme cold weather – requirements for rotary and ejection seat aircrew
- Ejection platforms have battery size limitations

#### What We've Done:

- RFI submitted for HFC items in 2018
   & 2019
- Ground evals performed on available items for rotary aircrew Feb 2022
- Supported ongoing SBIR II efforts for heated gloves and heated boot inserts

#### Plan Forward:

Seek and evaluate additional HFC items

Rotary aircrew have missions flown with doors open in winter



Ejection pilots need hand and foot protection during parachute descent if ejection occurs in extreme cold



## **Naval Air Systems Command**



Presented to:

**Joint Advance Planning Briefing to Industry** 

17 November, 2022





## PMA202: Aircrew Systems













#### **Personal Protection & Performance**

- Anti-exposure systems
- Boots, gloves, socks, undergarments
- Communication headset components
- Flight Clothing: suits & jackets
- Flight Deck & Maintainer Cranials
- Helmets, Hearing Protection systems
- Personal heating & cooling systems

#### **Combat Survivability& Perseverance**

- · Anti-G-Force protection suits
- Bladder Relief systems
- Body Armor
- High endurance seat cushions
- Hydration sustainment systems
- Laser Eye Protection & FOD glasses
- Smoke masks

#### **Physiological Episode Protection**

 Oxygen generation systems, masks, filters, monitors, emergency bottles

#### **Visual Situational Awareness**

- Enhanced Visual Acuity (EVA)
- Night Vision Cueing & Display (NVCD)
- Night Vision Goggles

## Chem Bio Defense: Protection & Perseverance

- Detection & Decontamination systems
- Respirators
- Skin exposure protection clothing

#### **Escape, Egress, Evasion & Recovery**

- Crashworthy seats & Restraint systems
- Escape systems ejection seats
- Parachutes
- Survival radios, signaling devices
- Survival rafts, Life Preservers
- Survival vests, Survival kit items
- Underwater breathing apparatus

1100 In-Service Products, 13 active acquisition initiatives

Deliver aircrew and aviation maintainer systems in order to optimize Naval aviation's combat effectiveness













## Flight Clothing



- General Purpose Safety and Flight Deck Boot
  - Boot to be issued during training as standard boot
  - Aircrew using brown boot
- Preparing minor changes to 2 piece flight suit (A2CU) for Navy version in sage green
- Planning to become a user of USAF maternity flight suit
- USAF CWAS Jacket now being issued by Navy Training in place of the CWU-32/P Summer Flyer's Jacket
- Evaluating cold weather outer garment needs
- Certification of leather suppliers for G-1 Leather Flyer's Jacket





## Design for Maintainer Program



- Helmets
- Hearing protection
- Organizational clothing
  - Flight deck jerseys and trousers
  - Coveralls
  - Boots
  - Gloves
  - Cold weather clothing
  - Foul weather clothing





## **Helmet and Hearing Protection Products**



#### Helmet

Team Wendy Exfil LTP





**HGU-98/P** 

#### Hearing protection

#### **NON Communication**

- 3M Peltor x4 hearing protection – non comm ear cups
- 3M Peltor x5 hearing protection - non comm ear cups

#### Communication In test and assessment phase

- Invisio T7 comms headset
- Invisio X5 in ear comms set
- 3M Peltor ComTac V





## **Maintainer Clothing Efforts**



- Marine Corps OD Green FR Coveralls
- Marine Corps OD Green FR Flight Deck Jersey and Trousers
  - limited user evaluation found acceptable
  - adding color to existing technical data package
- Cold Weather Jacket: COTS solutions identified
- Navy FR 2 piece Maintainer Ensemble: potential replacement for flight deck trouser
- Evaluation of I2FRV developed by NAVSUP
- Improved gloves for maintainers: evaluated government and commercial solutions





## Questions



