



**DLA**  
DEFENSE LOGISTICS AGENCY  
*Established 1961*



The Nation's Combat Logistics Support Agency

# DLA Clothing & Textiles Flight / Safety

Raymond Jacquette  
IST Supervisor, Safety Team  
Nov 18, 2021

WARFIGHTER ALWAYS



# 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 21 - \$67.7M
    - FY 20 - \$82.0M
    - FY 19 - \$79.0M
    - FY 18 - \$79.1M





## Upcoming Opportunities

- AirSave Vest, Type I & II – Full and Open  
– Proposed issue 1<sup>st</sup> Qtr FY 22
- Sock, Anti-Exposure - Full and Open  
– Proposed issue 1<sup>st</sup> Qtr FY 22
- Flight Deck, Shield – Full and Open  
– Proposed issue 2<sup>nd</sup> Qtr FY 22
- Hood Assembly, 32/P – Full and Open  
– Currently in review for proposed start date





## Team POCs

- Michael Medora: Division Chief
  - [michael.medora@dla.mil](mailto:michael.medora@dla.mil)
  - 215-737-3274
- Ray Jacquette: IST Supervisor
  - [raymond.jacquette@dla.mil](mailto:raymond.jacquette@dla.mil)
  - 215-737-8079
- Dan Price: Contracting Officer
  - [daniel.price@dla.mil](mailto:daniel.price@dla.mil)
  - 215-737-8101
- Contract Specialists:

– Mara Cremen:	<a href="mailto:mara.cremen@dla.mil">mara.cremen@dla.mil</a>	215-737-8094
– Lisa Pizzo:	<a href="mailto:lisa.pizzo@dla.mil">lisa.pizzo@dla.mil</a>	215-737-8076
– Bob Rounay:	<a href="mailto:robert.rounay@dla.mil">robert.rounay@dla.mil</a>	215-737-7123
– Ed Klos:	<a href="mailto:edward.klos@dla.mil">edward.klos@dla.mil</a>	215-737-8105
– David Falkowski:	<a href="mailto:david.falkowski@dla.mil">david.falkowski@dla.mil</a>	215-737-5395
– Rabah Yisrael:	<a href="mailto:rabahben.yisrael@dla.mil">rabahben.yisrael@dla.mil</a>	





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# DLA Clothing & Textiles Special Purpose & Chemical Clothing

Thomas Darcy, IST  
Supervisor/Contracting Officer  
Nov 18, 2021



WARFIGHTER ALWAYS



# Team POCs

Name	Title	Phone	E-Mail
Tom Darcy	IST Supervisor/Contracting Officer	215-737-3068	<a href="mailto:Thomas.Darcy@dla.mil">Thomas.Darcy@dla.mil</a>
Don Howarth	Acq Specialist/Contracting Officer	215-737-0429	<a href="mailto:Donald.Howarth@dla.mil">Donald.Howarth@dla.mil</a>
Ike Murray	Acq Specialist/Contracting Officer	215-737-5817	<a href="mailto:Isaiah.Murray@dla.mil">Isaiah.Murray@dla.mil</a>
John Green	Acquisition Specialist	215-737-3169	<a href="mailto:John.e2.Green@dla.mil">John.e2.Green@dla.mil</a>
Elene Chappelle	Acquisition Specialist	215-737-2532	<a href="mailto:Elene.Chappelle@dla.mil">Elene.Chappelle@dla.mil</a>
Mike Walton	Acquisition Specialist	215-737-1005	<a href="mailto:Michael.J.Walton@dla.mil">Michael.J.Walton@dla.mil</a>
Tiffany Savage	Acquisition Specialist	See E-mail	<a href="mailto:Tiffany.Savage@dla.mil">Tiffany.Savage@dla.mil</a>
Gregory Dotson	Acquisition Specialist	See E-mail	<a href="mailto:Gregory.Dotson@dla.mil">Gregory.Dotson@dla.mil</a>
Shane Moore	Acquisition Specialist	See E-mail	<a href="mailto:Shane.Moore@dla.mil">Shane.Moore@dla.mil</a>



# Special Purpose Clothing

- 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)



# Obligations

- Material Obligations
  - FY 19 Actual - \$179.9 Million
  - FY 20 Actual - \$652.3 Million (\$143.7M Traditional Special Purpose balance was for COVID PPE)
  - FY 21 Actual - \$191.9 Million
  
- SALES (@ Standard)
  - FY 19 - \$135.6 Million
  - FY 20 - \$217.2 Million
  - FY 21 to date - \$678.1 Million (Majority for COVID PPE)



# 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)



# 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.



# Obligations/Sales

- Material Obligations –
  - FY 19 Actual – \$126.3 Million
  - FY 20 Actual - \$33 Million
  - FY 21 Actual - \$33.8 Million
  
- SALES (@ Standard) –
  - FY 19 - \$179 Million
  - FY 20 - \$122.6 Million
  - FY 21 - \$46.8 Million



# Tiered vs Options

<b><u>BASIC COMPARISON BETWEEN OPTIONS AND TIERED PRICING</u></b>										
<b><u>BUY WITH OPTIONS</u></b>					<b><u>BUY WITH TIERS</u></b>					
	<u>MIN</u>	<u>AEQ</u>	<u>AOLQ/MAX</u>	<u>MONTHLY MAX/12 OR DIVIDED BY 9</u>	<u>VS</u>		<u>MIN</u>	<u>AEQ</u>	<u>MAXIMUM</u>	<u>MONTHLY MAX/12 OR DIVIDED BY 9</u>
BASE	30,000	120,000	150,000	12,500 OR 16,500		1ST 12 MONTH PERIOD	30,000	120,000		12,500 OR 16,500
OPT1	30,000	120,000	150,000	""		2ND 12 MONTH PERIOD		120,000		""
OPT2	30,000	120,000	150,000	""		3RD 12 MONTH PERIOD		120,000		""
OPT3	30,000	120,000	150,000	""		4TH 12 MONTH PERIOD		120,000		""
OPT4	30,000	120,000	150,000	""		5TH 12 MONTH PERIOD		120,000		""
			750,000		<b>EQUALS</b>				750,000	



## Tiered vs Options

- Both allow contract price adjustment for each 12-month term or each 12-month tier.
- Both advise offer of monthly maximum contractor might be required to deliver.
- Both approaches are built around the government interest in placing quarterly delivery orders to ensure we have sufficient stock on hand and due in to meet our customer fluctuating demand in the most efficient manner possible.
- There are additional administrative actions required in invoking options and additional time and a timing factor needed for securing the funds needed to invoke those options that are not required when using tiered pricing terms. The tier contract pricing approach embraces the concept of a five-year (or multiple year) ordering period contract with a single guaranteed minimum and single contract maximum; but both the option and tiered contract approach remain centered around the government annual estimate at time of award.



# Upcoming Opportunities

- Future solicitations currently being planned. Look at [beta.SAM.gov](https://beta.sam.gov) for future details and Market Research Surveys that will help in the development of our Acquisition Strategies.
  1. Disposable Coverall – Market research upcoming
  2. JB2GU – Market research upcoming
  3. MALO – Market research upcoming
  4. LJPACE/JPACE – IAP stage, TAD 9/22
  5. Shipboard Jacket – Market research upcoming TAD 8/22
  6. Coverall, Utility, Green - Market research upcoming, TAD 11/22
  7. FREE IWOL – Mandatory Source
  8. Advanced Combat Pant – Market research upcoming



**Project Manager  
Soldier Survivability**

**PRECISION  
is the Standard**

*Every Ounce Matters, Every Bullet Counts*

**Product Manager  
Soldier Clothing and Individual Equipment  
Joint Advanced Planning Brief to Industry  
*Flight, Safety, Special Purpose, & Shipboard  
Session***

18 November 2021

MAJ Jason Galletta  
Assistant Product Manager, SCIE  
jason.d.galletta.mil@army.mil



# Welding Individual Protection Safety (WIPS) Ensemble



- **Where we are:**

- Two factors have considerably affected Army welders.
  - First, Occupational Health and Safety (OSHA) standards and technology have evolved since the fielding of welders' original equipment (fielded in 1964) and the Army has not kept pace with these changes
  - Second, welders' Personal Protective Equipment (PPE) is provided as part of a system-level Program of Record (POR) rather than issued to individual Soldiers



- **Where we are going:**

- Multiservice Commonality Effort: The WIPS Ensemble is a full spectrum solution to provide Army MOS 91E, 914A, 88L, and 881A (known as metalworkers/welders throughout this document) with PPE unique to their specific MOS
- The WIPS Ensemble is a system of items of clothing, textiles, and/or equipment designed specifically for protecting Soldiers from the hazards of Sustainment MOSs only
- The WIPS Ensemble shall protect against flame, thermal burns, radiant energy, vision damage



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# **AF Uniform Office Flight Duty Uniform Programs**

**JAPBI Nov 2021**

**Aaron Needles**

AFUO Clothing Designer, AF Uniform Office

[John.needles.1@us.af.mil](mailto:John.needles.1@us.af.mil)



# A2CU-Female Overview



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- **BACKGROUND:**

- Fit evaluation of unisex Advanced Aircrew Combat Uniform (A2CU) validated need for female sizes for comfort and safety
- Design will mirror unisex design with modifications required for smaller sizes

- **INTERIM SOLUTION:**

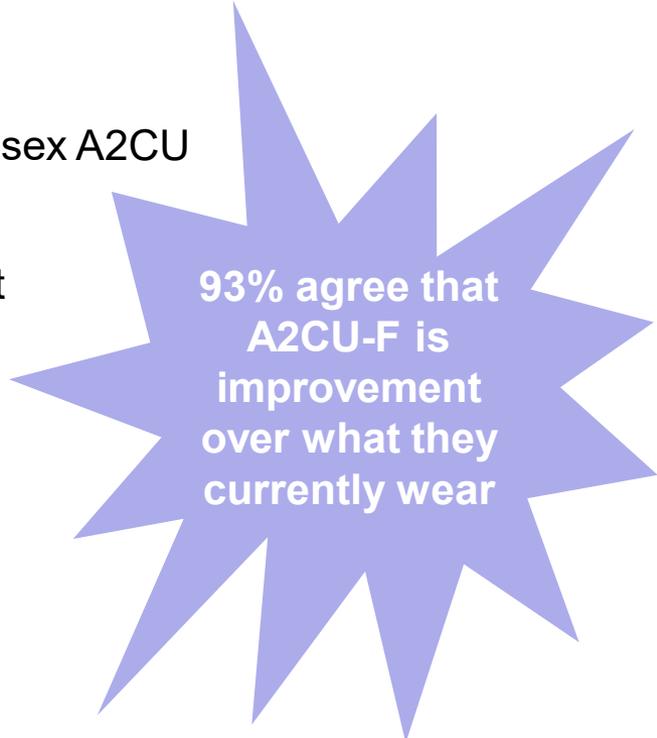
- MASSIF® 2-Piece Flight Suit is a current commercially available solution until Govt owned solution is fielded

- **PERMANENT SOLUTION:**

- Develop female fit for A2CU due to poor female fit of unisex A2CU
- Government owned design
- Development of female pyroman “FRANNY” for burn test
- Common Solution for AF, Army, and Navy

- **STATUS:**

- SRP delivered to DLA in Jun 2021
- AF requisitions for initial 15K units



93% agree that  
A2CU-F is  
improvement  
over what they  
currently wear



# A2CU-F vs. A2CU Trousers



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89% like the overall fit of the A2CU-F trouser



A2CU-F



A2CU



A2CU-F



A2CU

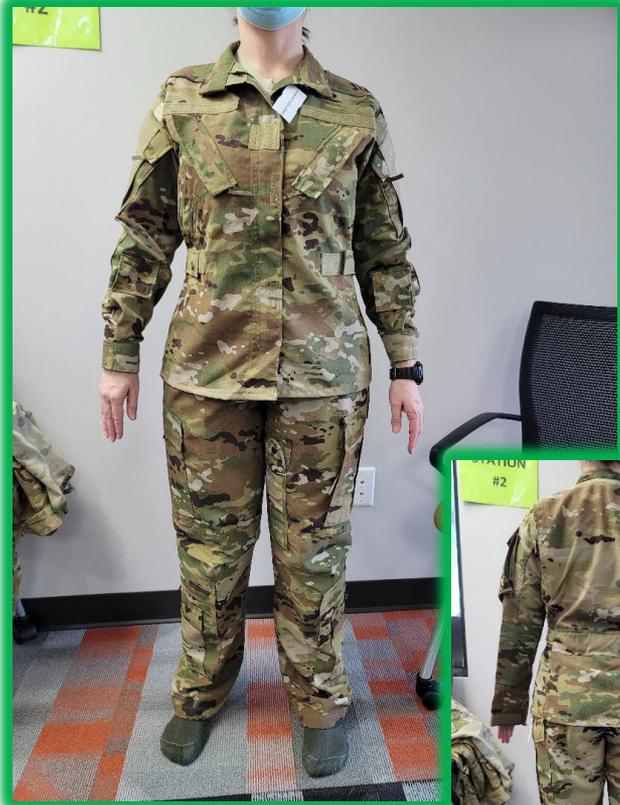


# A2CU-F vs. A2CU Coat



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98% like the overall fit of the A2CU-F coat



A2CU-F



A2CU



A2CU-F



A2CU



# Maternity 1 pc Flight Duty Uniform (MFDU)

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## BACKGROUND:

- Develop **first ever maternity** flight suit to accommodate pregnant aircrew through pregnancy and post-pregnancy due to policy change
- Each year there are approximately 400 pregnant females in need of a Maternity Flight Suit

## 1 PC SOLUTION:

- Development of 1 pc solution first for Faster development due to known FR protection in design and materials
- Development of pregnant belly for FRANNY burn manikin
- Common Solution for AF and Navy

## STATUS:

- AF LRIP Contract; 2K uniforms– Delivery Apr 2022 to 20 AF Bases for issue
- SRP Delivery to DLA– Dec 2021





# Maternity Advanced Aircrew Combat Uniform (M-A2CU)

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## BACKGROUND:

- Develop flight suit to accommodate pregnant aircrew through pregnancy and post-pregnancy due to policy change

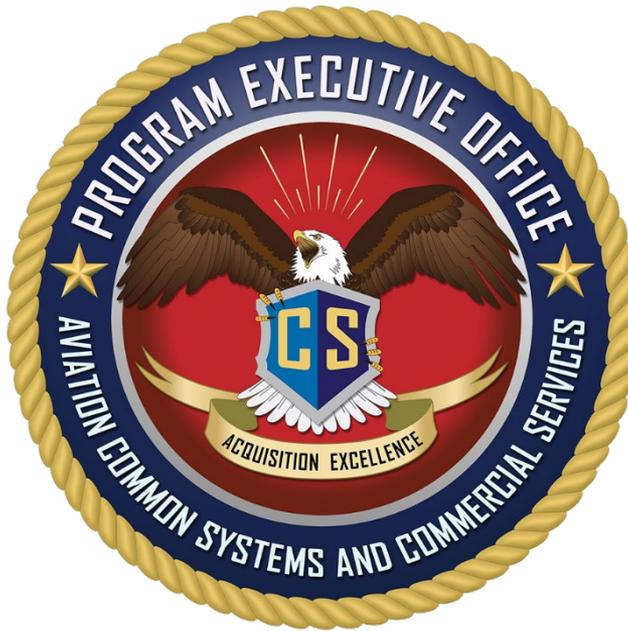
## 2 PC SOLUTION:

- Develop maternity fit for 27/P to accommodate females through entire pregnancy and post wear
- Due to sourcing of stretch FR material and unknown burn protection, follow on program to 1 pc MFDU
- Common Solution for AF, Army, and Navy

## STATUS:

- Fit/Wear Testing to begin Nov 2021
- SRP Delivery to DLA – Mar/Apr 2022





# Design for Maintainer



*Presented to:*

**Joint Advance Planning Briefing to Industry**

18 November, 2021





# Design for Maintainer Program



- PMA202 managed program to develop solutions for Navy and Marine Corps aviation maintainers and flight deck personnel
- Responsible for developing solutions to maintainer requirements, fielding and sustainment of products
  - Helmets
  - Hearing protection
  - Organizational clothing
    - Flight deck jerseys and trousers
    - Coveralls
    - Boots
    - Gloves
    - Cold weather clothing
    - Foul weather clothing





# Aircraft Maintainer Overview



- NAVAIR's goal is to provide aircraft maintainers the necessary clothing and gear they need to perform their job functions safely and effectively.
- Past/present projects:
  - Replacement maintainer flashlight
  - Fall protection
  - Maintainer clothing
  - Ergonomics study/exoskeleton
  - Cranial replacement





# Clothing Efforts



## Projects:

- Marine Corps OD Green FR Coveralls
- Marine Corps OD Green FR Flight Deck Trousers
- Marine Corps OD Green FR Flight Deck Jerseys
- Cold Weather Jacket
- Navy FR 2 piece Maintainer Ensemble

## Needs:

- Inclement weather gear (jackets/pants/gloves) for the following conditions:
  - Sub freezing temperatures
  - Intermediate cold weather
  - Up to 130 degrees Fahrenheit
  - Rain, snow, or icy conditions





# Marine Corps Options: Ashore



- Utility Coverall – Non-FR



- IFRV/Utility Coverall – FR but non-distinguishable for Marines

- Black Fabric Gloves – Non-FR





# Marine Corps Options: Shipboard

- Utility Coverall – Non-FR



- Float Coat



- IFRV/Utility Coverall – FR



- Black Fabric Gloves – Non-FR



- Flight Deck Jersey



- Flight Deck Trouser



- Note: Navy FR ship-board clothing items are approved for MC Maintainers to wear, however, fleet representation and leadership has expressed the desire/need to distinguish themselves as Marines from the Navy aircraft maintainers and flight deck personnel.





# Phased Approach



- Phased approach to solving the aircraft maintainer below the neck ensemble issues
  - ✓ **Phase I (interim solution):** Approve 2pc flight suits and combat shirts/pants for Marine Corps aircraft maintainers
    - Need derived from shipboard requirement for Aviation Maintainers to wear FR clothing
    - Aviation Marine Corps maintainer current clothing (OD coveralls) is not FR
  - ✓ **Phase I.5:** Evaluation and approval of COTS solutions for maintainer gloves and cold weather/foul weather ensembles
    - RFI's released to look for a cost friendly option for the maintainers (many solutions currently on the market are very expensive)
      - Glove RFI: N0042121NORFPPMA202XX01
      - Cold Weather Clothing RFI: N0042121NORFPPMA202XX02
      - Foul Weather RFI: N0042121NORFPPMA202XX03





# Phased Approach



- **Phase II (short-term):** Develop a version of the flight deck trouser and IFRV coverall in OD Green for Marines
  - Easy to achieve within 1-2 years
  - Using existing patterns and approved materials
  
- **Phase III (long-term):** Design a gov't owned 2 piece FR ensemble (in Woodland/Desert MARPAT) that can be worn from shop to chow hall
  - 2 piece uniforms optimize user performance, provide more flexible sizing options, and reduces unnecessary replacement
  - Issue FR shirts to reduce thermal burden in hot climates or in enclosed/poorly ventilated workspaces (cockpits, fuselages, wing tanks)
  - Use of 2 pc is up to command discretion (i.e. some commands might not allow maintainers to wear the uniform to chow hall, gas station, etc.)
  - Determine a solution that is affordable and meets maintainer needs





# Questions



My four priorities for our aviation Marine Corps are simple. First, we will prepare to deploy to combat, and focus on readiness for combat. Second, we will modernize our force with new aircraft and systems, continuing our in-stride rebuild, refit and reset of our force to put reliable aircraft on the line and on the flight deck. Concurrently with these two efforts, we will support the **maintainers**, those experts who make our squadrons operate, by providing them with the leadership, career paths, and incentives that keep them on our team in order to retain and leverage their unique skills.

