



AFLCMC... Providing the Warfighter's Edge

Joint Advanced Planning Briefing to Industry

US Air Force Overview

5 Nov 2020

Lt Col Scott Foreman
Deputy Chief, Human Systems Division
Agile Combat Support Directorate
Air Force Life Cycle Management Center
937-938-3420

Scott.foreman.1@us.af.mil





Agenda



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- **Organizational Charts**
- **Vision & Mission**
- **Future requirements**
 - **Combat Ready Airman**
 - **Female Fitment**
 - **USSF uniforms**



Thank You



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Thank you Industry for finding innovative ways to adapt to Covid-19 and continue to deliver critical product to our warfighters



Org Chart (Strategic)



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Legend

WP AFB, OH

Robins AFB, GA

Heath, OH

Air Force Materiel Command (AFMC)

Commander: General Arnold Bunch

AF Life Cycle Management Center (AFLCMC)

Commander: Lt Gen Shaun Morris

Agile Combat Support Directorate (WN)

Program Executive Officer (interim): Col Lea Kirkwood
Deputy (interim): Mr Kevin Keck

Automatic Test Systems

AFMETCAL

Simulators

Human Systems

Electronic Warfare & Avionics

Support Equipment & Vehicles



U.S. AIR FORCE

Human Systems Division



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Legend

WP AFB, OH

Robins AFB, GA

Aberdeen, MD

Division Chief
Mr. Emilio Varcarcel

Deputy
Lt Col Scott Foreman

Aeromedical Systems
Mr. Chris McCammant

Chemical, Biological, Radiological
& Nuclear Defense Systems
Lt Col Paul Hendrickson

Combat Ready Airman
Lt Col Joe Nichols

Aircrew Performance Systems
Mr. Rick Roell

Egress & Survival
Lt Col Joe Nichols

Sustainment
Ms. Mary Kicklighter



Human Systems Division

Vision & Mission Statements

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Vision:

Save and improve Airmen's lives.

Mission:

Acquire and support human systems to enhance warfighter performance, protection, and survivability



Every Airman...Every Aircraft...Every Day!



Human Systems at a Glance



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Aeromedical
Mr. McCamant

Aircrew Performance
Mr. Roell

CBRN
Lt Col Hendrickson

CRA
Lt Col Nichols

Egress & Survival
Lt Col Nichols

Sustainment
Ms. Kicklighter

Head Gear (neck up) **Body Wear** (neck down)

Egress **Survival**

McCamant Chris LtCol Impastato
AML Programs RAC Centrifuge CLS
DHP Projects MCIPE FIVES AVT Biomeme Three9 PLS SIT-D TS-VIS CLC Aeromed Test Lab

Mr. Derespinis Mr. Perine	Mr. Tobin, Chris Ms. Bemby
Helmet ABH NGFWH Legacy Helmets	Suit IAE CWAS G-Suits Anti-Exposure A2CU Fit Suit
Accessory ALEP 2 & 3 NFB PLTZ NVG DEP	Accessory Body Armor Boots/Gloves Bladder Relief

Lt Col Hendrickson Jennifer Evans
JPEO JPMs/JPLs Info Mgmt/Tech Medical Protection Rad/Nuc Defense Sensors Special Ops
Efforts: AF Interest Percutaneous Prot. Chem/Bio Detection Respiratory Prot. Collective Prot. Warning/Reporting Contamination Mit. Medical: Vac; Treat; Diagnostic

Ms. McLean Ms. Roan Maj Rodriguez
Exoskeletons Female Fitment Garments A2CU-F Maternity FDU USSF Service Dress CPI New PTU FR Product List ECW Clothing ECW Boots/ Gloves
AFUO
DLA Philly
Natick Liaison

Maj Grimm, Ms. Bridges, Mr. Melvin	Maj Shuck Idone, Rick
Seat B-2 ACES2 SSIP NGES T-38 ESUP ACES2 Legacy B-52 Egress Fixed Seats	Gear PLB AirSave Kit/Vest Beacon/Radio PRC-90 DMS IPLD
Parachute LPP BA-X All Chutes Harnesses Drag Chutes	Flotation LPU Raft/Slides

Domain Aligned Egress Survival Head Gear Body Wear CBRN WML Programs AFE CBRN Def Sys PS&RE:NVG
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LABS: **Airmen Accommodation Lab** -- **Life Sciences Equipment Lab** -- **Materials & Textiles Lab** -- **Aeromedical Test** -- **On Board Oxygen Generating Systems (OBOGS)**





Materials & Textiles Lab



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- **Mission: verify Air Force Life Support Equipment (LSE) meets contractual specifications**
 - Testing of raw textiles to be used in manufacture of LSE
 - Testing/Inspection of First Articles & production lot samples
- **Wide array of equipment to test full-range of textiles properties against contractual requirements**
- **Supports DLA and HSD contracts**
- **15-25% rejection rate - Typically results in contractor corrective action or contract termination**





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Future Requirements



Combat Ready Airman



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ISR / SOF PEO

Battlefield Airmen (BA)

PEC: 48011F
AFSCs: 13CX
1C2X1
1W0X2



Guardian Angel

PEC: 27227F
AFSCs: 13DX
12TX1
1T0XX



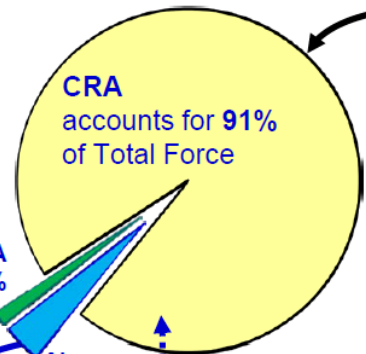
Agile Combat Support (ACS) PEO

Aircrew Flight Equipment (AFE)

PEC: 72833F
AFSCs: 11XX, 12XX, 1AXX


Air Force Uniform Office (AFUO) already manages uniforms and boots /gloves





Combat Ready Airmen (CRA)

- PEC: No dedicated PEC for OCIE
- AFSCs: 21RXX, 3P0XX, 2F0XX, and others
- No PEO responsible for all OCIE
- No dedicated program office to develop OCIE



PROBLEM:

- 91% of Total Force has no advocate to develop and field OCIE
- Unit-level purchasing results in:
 - Non-Standard equipment – increases training burden & risk of injury
 - Higher costs – no economies of scale

"I'm tired of my Airmen looking like a militia." AF Senior Leader

Develop, acquire, field, and sustain affordable integrated state of the art equipment for all Airmen to maximize full-spectrum readiness enabling global Air Force dominance.

Combat Ready Airman Requirements

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Develop, acquire, field, and sustain standardized, integrated, and state of the art equipment for all Airman. How?

1. Centralize Requirements Management:

- Ensures Standardized Ensembles & Interoperability
- Enables Product Support and Innovation through Strategic Partnering
- Enables Forward Planning

2. Centralize Funding & Acquisition:

- Increases Purchasing Power
- Reduces Waste

3. Centralize Asset Management:

- Improves Asset Accountability & Visibility
- Enables Enterprise Resource Leveling to Avoid "Haves and Have-nots"

Combat Ready Airman

- Standardize Enterprise Requirements Management & Acquisition
- Move Planning, Programming, & Advocacy to the Enterprise Level
- Create an Enterprise Asset Management Capability with Central Oversight
- Tie Enterprise Processes Together with Enabling IT
- Specialized Warfare: **1%** of Airmen
- Aircrew Flight Equip: **8%** Airmen
- CRA: **91%** Airmen*

UNCLASSIFIED



IOC: FY22
FOC: FY 24

Initial Combat Ready Airman requirements focused on equipping Security Forces personnel



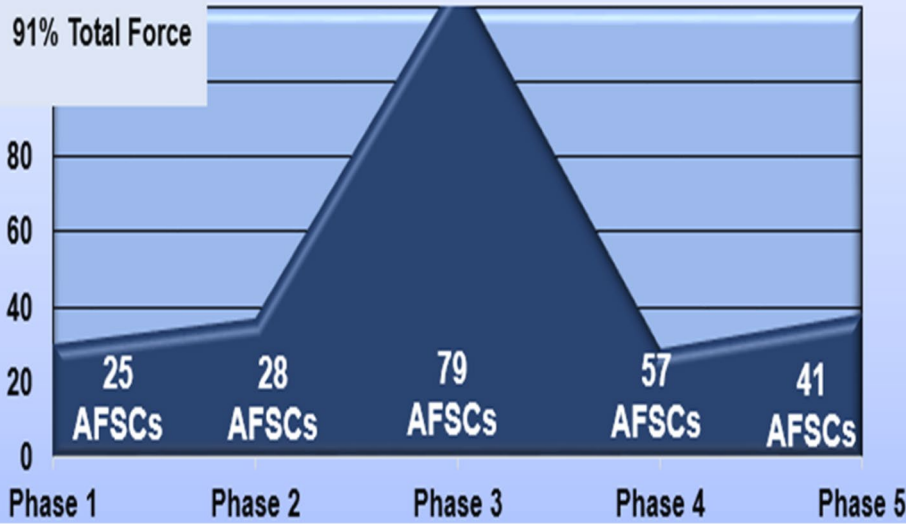
CRA Strategic Plan



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% Force by Phase

91% Total Force



- = Not Started
- = Started
- = Completed





FY21-FY25 Prioritized

Security Forces Requirements

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- **Mobility Torso Extremity Protection**
- **Mobility Cold/Extreme Cold Weather Footwear**
- **Mobility Cold/Extreme Cold Weather Headwear**
- **Cold Weather Gear**
- **Mobility Cold/Extreme Cold Weather Handwear**
- **Eye Protection**
- **Gloves**
- **Wet Weather Gear**
- **Hearing Protection**
- **3-Day Backpack w/ Personal Hydration System**
- **Flashlight**
- **Holster (Baton)**
- **Tactical Battle Belt**
- **M18 Ammo Pouch OCP**
- **M4A1 Ammo Pouch**
- **Handcuff Pouch OCP**
- **Flashlight Pouch OCP**
- **Accessories Pouch OCP**
- **Load-Out Bag OCP**
- **Rifle Sling**
- **Handcuffs & Key**
- **Whistle**

All projects currently unfunded; AFSFC to fund requirements as funding is identified



Female Fitment



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Human Systems Division Female Fitment Goals

- Integrate female fitment into **ALL** current and future HSD programs
- Liaise with HSPO-external organizations and communities

Near Term Clothing & Textiles FF efforts:

1. Maternity flight suits (1 & 2 piece variants)
2. Advanced Aircrew Combat Uniform - Female
3. USAF Service Dress slacks, blouse, maternity blouse
4. USAF g-suit redesign



US Space Force Uniforms



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- **USSF established as separate branch of US Armed Forces, 20 Dec 2019, under the Dept of the Air Force**
- **USAF Uniform Office delegated USSF uniform design & development responsibility**
- **AFUO working with USSF leadership on requirements development and designs for a full range of uniforms**
 - **Current emphasis on Service Dress & Physical Fitness uniforms**
- **Anticipate fabric and test assets purchases Dec 20-Feb 2021**
- **Anticipate release of Supply Request Packages to DLA in CY21**





Clothing & Textiles Gaps Require Industry Help



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Requirement	End Item
Wool fabric alternatives or wool blends due to supplier reduction	USSF Service Dress uniform
Washable stretch woolens and alternatives	USSF Service Dress uniform
Stretchable fire-retardant fabrics	Maternity 2-piece flight suit; other uniforms
Performance fabrics	USAF/USSF optional physical fitness items
Fit/wear test asset prototype manufacturers (small batch, quick turn)	All uniforms
Composite toe, ASTM-compliant boots w/zipper for easy on/off	Boots for emergency responders
Safe heating technologies	Extreme cold weather clothing
Female anthropometric-compliant sized footwear	Female boots
Improved (quality/reliability) closure systems	Protective clothing and accessories
FR waterproof breathable, POL Resistant, Antistatic, Duck Cloth	ECW Mukluk Flyer Boot Improvement

Requirements to be covered in greater detail during Air Force breakout sessions

Heated Flight Clothing

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Program Description



Program Description:

- Provide active heating for aircrew members operating in extreme cold weather environments such as Northern Tier bases, the mountains of Afghanistan, and the Korean Peninsula.
- Create/obtain an electrically or criteria equivalent heated under-layer/outer-layer of clothing covering feet, hands, torso, and legs.
- Current clothing options become too bulky and do not provide enough warmth while seated in a sedentary position

Major Customers:

- Air Force Global Strike Command, Air Mobility Command

Status

There has been an increase of interest in Heated Flight Clothing not only within Global Strike Command, but with Air Mobility Command for their Antarctica mission, and the Army's Special Operations Aviation community as well. We expect to be releasing an RFI/RFP in the near future for heated clothing to fill these requirements.

Requirements

Physical Features	<ul style="list-style-type: none"> • Will be modular/configurable to enable the user to tailor the capability to each mission profile. (Each component should be able to be used separately if desired). • Will not degrade tactility and dexterity for mission requirements. Aircrew must be able to perform tasks for pre-flight, in-flight, post flight and emergency procedures. • Will enable the Commercial Mobile Devices (CMD) touch screen to be operated by touching
Power Source	<ul style="list-style-type: none"> • Electronically Powered/Portable Battery System or combination (no aircraft modifications) • If electronically battery powered, battery will weigh no more than 15 lbs. and be man-portable and or able to be aircraft secured to an 8G minimum IAW aircraft flight manual. • Man-portable battery should be capable of operating unit for a minimum of 1.5 hours without recharge with a target capability of 4 hours without recharge.
Capability (cold protection)	<ul style="list-style-type: none"> • Active controlling measures for increase/decrease of heat power source. • Shall be capable of withstanding the extreme environmental conditions induced by aircraft operation, ground transport, storage and rough handling. • Shall perform as required with ambient temperature range of - 65°F (-54°C) and with wind-chill to - 140° F (- 96.5°C)

Request for Information release on beta.SAM.gov expected late Nov 2020



HSD Points of Contact



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Name	Position	Email
Mr Emilio Varcарcel	Chief, Human System Division	emilio.varcarcel@us.af.mil
Lt Col Scott Foreman	Deputy Chief, Human Systems Division	scott.foreman.1@us.af.mil
Lt Col Joe Nichols	Chief, Combat Ready Airman Branch	joseph.nichols.2@us.af.mil
Ms Debra McLean	Lead, Clothing & Textiles Domain	debra.a.mclean4.civ@mail.mil
Ms Tracy Roan	Chief, Air Force Uniform Office	tracy.roan.1@us.af.mil