

AF Update

Joint Advanced Planning
Brief for Industry
15 November 2023





Overview



- Operational Imperatives
- Great Power Competition
- Organizational Structure
- Human Systems Division Focus
- On the Horizon
- Questions



Operational Imperatives from Secretary of the Air Force



- What: Operational Imperatives (OI) are critical operational capabilities and functions we must invest in to protect our ability to deter conflict and project power against pacing challenges
- Why: China is fielding capabilities designed to defeat our ability to project power in the Western Pacific; Russia is attempting the same in Eastern Europe
 - OI-1: Space Order of Battle
 - OI-2: Operationally Focused Advanced Battle Management System
 - OI-3: Moving Target Engagement
 - OI-4: Tactical Air Dominance
 - OI-5: Resilient Basing
 - OI-6: Global Strike
 - OI-7: Readiness to Deploy and Fight



Reoptimizing for Great Power Competition



- Reoptimization is the DAF's # 1 Priority
- Deterrence is the goal, but deterrence rests firmly on our readiness and ability to win.
 - -LOE 1: Organize
 - -LOE 2: Equip and Sustain

"Focus on how to organize acquisition and sustainment related functions, optimize technology transition, and new product pipelines with a focus on delivering warfighting advantage against peer competitors."

-LOE 3: People

-LOE 4: Readiness

-LOE 5: Support



ensure enduring advantage."
- Secretary Kendall

support campaigning and



Organizational Chart—Strategic





Air Force Materiel Command (AFMC)
Commander: General Duke Richardson

AF Life Cycle Management Center (AFLCMC)
Commander: Lt Gen Donna Shipton





Agile Combat Support Directorate (WN)
Program Executive Officer (PEO): Ms. Lea Kirkwood
Military Deputy PEO: Col Carlos Quinones



Automatic Test Systems

AFMETCAL

Simulators

Human Systems

Electronic Warfare

Combat Avionics

Support Equipment & Vehicles

WP AFB, OH

Robins AFB, GA

Legend

Heath, OH

Every Airman...Every Mission...Every Day!



Organizational Chart Human Systems Division





Senior Materiel Leader/ Division Chief Mr. David McCain

Deputy Division Chief Lt Col (s) Chris **Sparkes**



Legend

Robins AFB

WPAFB

DLA. Philly

Aberdeen, MD

Natick, MA

Ft Belvoir, VA

Chief Enlisted Advisor **CMSgt Juan Carlos** Cueto

Chief Engineer Ms. Nichole Taylor Chief of Contracting Mr. Michael Hill

Chief Financial Officer Ms. Deanna Gonet

Chief of Logistics/Product Support Manager

Ms. Mary Kickligher

Combat Ready Airman Branch **Maj Tiffany Low** (acting)

CBRN Defense Systems Lt Col Thomas **Adams**

Aircrew Performance Branch Mr. Jason Scott **Egress & Survival** Branch Lt Col Brad Kozenko

Aeromedical Branch Mr. Cole Hutchison

Operations & **Support Branch** Ms. Mary **Kicklighter**



Human Systems Division Structure



Combat Ready Airman Branch

Chemical, Biological, Radiological, **Nuclear Branch**

Aircrew Performance Branch

Egress & Survival Branch

Aeromed Branch

Operations & Support Branch

Air Force Uniform Office

-Maternity Flight Duty Uniform -Advanced Aircrew Combat Uniform-Female Maternity A2CU -AF/SF Physical Training Gear

-USSF Uniforms (Service Dress, Maternity, Mess Dress)

-AF Maternity Service Dress -Service Dress slacks/Shirt/ Coat

-Tactical Cap

-Maternity Uniform Pilot **Program**

Combat Ready Airman

-Female Fitment -Female Body Armor -Gear Fit App -Cold Weather Ensemble -Mobility B-Bag -Extreme Cold Operation Clothing System -Cold Weather Gear

-HCA for Covid-19 **Passengers JUON** JPEO JPMs/JPLs

-Protection, Medical Sensors, Special Ops Radiological Nuclear **Defense Integration Enabling Biotechnology**

Efforts: AF Interest

-Collective Protection Conex -Next Gen Aircrew Protection

-Uniform Integrated Protection

-AERS Wearables -Joint Biological Agent **Decontamination System**

-COVID Finder Contamination Indicator

Decontamination Assurance

 Radiological Detection System

-Medical Therapeutics -Medical Diagnostics -Medical Vaccines

-Light Duty Respirator

Head Gear

-Aircrew Laser Eye Protection - Tech Insertion

-Next Gen Fixed Wing Helmet

-Legacy Helmets -Aircrew Ballistic Helmet -Digital Eye Piece

-Next Generation

Nuclear Flash Blindness Protection

-Helmet Mounts

Body Wear

-Integrated Aircrew **Ensemble**

-Cold Weather Aviation System - G-Suits

-A2CU Flt Suit -Heated Flight Clothing -Aircrew Body Armor

> -Boots/ Gloves -Bladder Relief

-Survival Vest

Egress Systems

-B-2 Safety and Sustainability **Improvement Program** -Next Generation **Ejection Seat.**

-T-38 Eiection Seat Upgrade Program -Seat cushion -Parachutes BA-30 / BA-X

-Harnesses -Drag Chutes

Survival Systems

-Seat Survival Kit -Non-Combat Survival Radio

-Covert Signaling Communication

-Improved Personnel Lowering Device -Modular Aircrew

Restraint -Back and Leg Support

> -Flotation Devices -Life Rafts

Projects

-Patient Loading System -Vascular Shunt -Endovascular Variable Aortic Control -Spinal Immobilization Transport Device -Automated Vision Tester

-Joint Multi-Channel Infusion Pump -Autonomous Closed Loop

Control / Mechanical Ventilation -Physio Monitoring

-Aircrew Physiological

Incident Monitoring/Alerting

Labs

-Aeromedical Test Lab -Life Sciences Equipment Lab -Materials & Textiles Lab -Airmen Accommodation

-Life Support Systems/Scientific Test. Analysis, and Qualification (supporting OBOGS)

Lab

-Aircrew Flight Equipment -CBRN Def Sys -PS&RE: Night Vision Goggles

1800+ Items Maintained 652 Technical Orders

Supports Domains:

Egress Survival Head Gear **Body Wear CBRN** CRA



Human Systems Division Focus



- Sustaining & modernize equipment across all MAJCOMs, all Platforms, & all Airmen/Guardians
- Enduring Technology Challenges:
 - Legacy Equipment (Cold War Era) Persists
 - Limited repair, limited supply sources
- Fielding New Technology Challenges:
 - Berry Amendment
 - Pushing Modernized Clothing &Textile Tech into DoD systems
 - Meeting Warfighter Expectations
 - Quality & Consistency of Production
- Budgetary Constraints in the Air Force Corporate Process









On The Horizon



- Focus on Operational Endurance of the Human Weapons System
 - Arctic & USINDOPACOM
- Commonality Enterprise Solutions Required
- Industry Base Responsiveness to enable force presentation & force generation for deployment to be combat effective more rapidly.
- Advancing capabilities:
 - Signature Management
 - Increase safety & endurance of aircrew & isolated personnel
 - Changes in anthropometric range of end user
 - Contributing to Capability & Credibility of Deterrence
 - Optimizing technology transitions
 - Continued Female Fitment



Summary



- Be ready to support our Air Force Operational Imperatives
- We are committed to Enhancing Warfighter Performance, Protection & Survivability
- Great progress has been made for female fitment and uniform projects