

COMBAT READINESS DIRECTORATE

Air Force Service Update



Mr. David McCain
Chief, Human Systems Division
AFLCMC/ROU
20 November 2024

- **Great Power Competition**
- **Organizational Structure**
- **Human Systems Division Focus**
- **Industrial Base Challenges (Our Perspective)**
- **On the Horizon**
- **Summary**

Great Power Competition

REOPTIMIZE FOR GREAT POWER COMPETITION.

CORE AREAS



Today we are announcing 24 key decisions the Department of the Air Force is making to be more competitive in an era of Great Power Competition. We are moving forward with a sense of urgency to ensure we are ready to deter, and if necessary, win.

We are out of time.”

– Secretary of the Air Force Frank Kendall. AFA Warfare Symposium, 12 Feb 24

Change is not an option, but a necessity”

- Chief of Staff Gen David Allvin

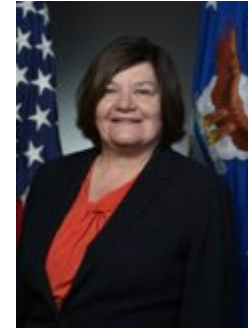
The **Change** We Need to **Win**



Strategic Leadership



Air Force Materiel Command (AFMC)
Commander: Gen Duke Richardson
Executive Director: Ms. Lorna Estep
Command Chief: CMSgt James Fitch II



Air Force Life Cycle Management Center (AFLCMC)
Commander: Lt Gen Donna Shipton
Executive Director: Mr. Dennis L. D'Angelo
Command Chief: CMSgt Timothy Wieser



Combat Readiness Directorate (RO)
Program Executive Officer: Lt Gen Donna Shipton
Deputy Program Executive Officer: Mr. Scott Boyd
Senior Enlisted Advisor: CMSgt Richard Wagner





**COMBAT
READINESS**

Combat Readiness Directorate

Operations Division

Ms. Christine Haupt

Security: Joseph Bovair
Security Manager: Adam Miller
Collateral Security: Adam Miller
JWICS/SIPR: Joe Bovair/Adam Miller
SAP: Joe Bovair

Facilities/IT: Geo Longe
Core IT (FOG): Kyle Mazur (Tent)
Core IT (ROU W-P): WN TBD (T)
SharePoint: TBD
Facilities (W-P & Robins): Geo Longe

HR/Personnel: Diana Schotz
Awards: Christy Jackson
ATAAPS/UCC: Diana Schotz

DAG/PEG: TBD
TMT/Susp: Stephanie Story Hall
GPC/GTC/Acq: Kelly Rodriguez

PEO, Combat Readiness

Lt Gen Donna Shipton, AFLCMC/CC

Deputy PEO, Combat Readiness Actg Director, Combat Readiness Directorate

Mr. Scott Boyd

Deputy Director, EPS CoE

Mr. Bill Santiago

FOG

Sr Tech Advisor

Col Charles "Foghorn" Clegg

Sr Enl Ldr (SEL)

CMSgt Richard Wagner

Exec

TBD

Admin

Stephanie Story Hall (Temp)

Senior Functionals

Program Mgmt, DH

Mr. Scott Boyd

Logistics

Mr. Jason French

Engineering

Dr. Russell Kurtz

Contracting

Mr. Jonathan Terry

Financial Mgmt

Mr. Jeff Morningstar

Test

Mr. Gavin Wilson

Intel

Ms. Katherine Braun

COS

Ms. Toni Trammel

FMS

TBD

Security

Mr. Joseph Bovair

Auto Test Sys (ROA)

Mr. Scott McClain



COMMON A/C PORTABLE
REPROGRAMMING EQUIP (CAPRE)



OSCILLOSCOPES



F-15 RADAR SYSTEM
INTERCONNECT TESTING



VERSATILE DIAGNOSTIC ATS
(VDATS)

Rapid Sust Ofc (ROD)

Mr. "Jimmy" Lawrence



ADVANCED MANUFACTURING



ARTIFICIAL INTELLIGENCE
& MACHINE LEARNING



AUTOMATION & ROBOTICS



DATA & DIGITAL ENVIRONMENTS



RAPID & AUSTERE
MAINTENANCE ENVIRONMENTS

AFMETCAL (ROM)

Mr. "JT" Moore



CHECK EARLY WARNING
RADAR RECEIVER



MICROWAVE
MEASUREMENT RECEIVERS



PLM-4 RADAR SIGNAL
SIMULATOR



AIRCRAFT ALLOWED TO
CARRY ARMAMENTS



B-2 AIRCRAFT ABLE
RECOGNIZE FRIEND/FOE

Human Systems (ROU)

Mr. David McCain



COMBAT READY AIRMAN



CHEMICAL, BIOLOGICAL,
RADIOLOGICAL, NUCLEAR



AIRCREW PERFORMANCE



EGRESS & SURVIVAL



AEROMEDICAL

Spt Eq & Veh (ROZ)

Mr. Jamey Silence



VEHICLES



BASE EXPEDITIONARY
AIRFIELD RESOURCES (BEAR)



MATERIAL HANDLING
EQUIPMENT



MINE RESISTANT AMBUSH
PROTECTED (MRAP)



MHU 196-204 SLEP



COMBAT
READINESS

Human Systems Division



Chief Enlisted Advisor
CMSgt Alex Delgadillo



Senior Materiel Leader/
Division Chief
Mr. David McCain



Deputy Division Chief
Lt Col Jeff Hoover



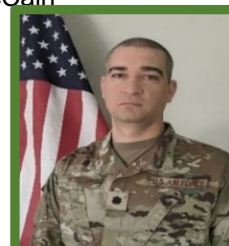
Combat Ready Airman
Branch Chief
Lt Col (s) Brian Riley



CBRN Branch
Lt Col Thomas Adams (ML)



Aircrew Performance
Branch Chief
Mr. Jason Scott



Egress & Survival
Lt Col Brad Kozenko



Aeromedical Branch Chief
Mr. Scott Murphy



Ops & Support Branch Chief
Mr. David Wilson



Chief of Engineering
Ms. Nichole Taylor



Chief of Test
Mr. Tim Blanzzy



Chief of Contracting
Mr. Michael Hill



Chief Financial Officer
Mr. Brian Hartsell



Chief of Logistics (PSM)
Mr. David Wilson



Chief, PEG/DAG
Ms. Charleen Lundy-Smith


**COMBAT
READINESS**

Highlighted Programs/Projects

Combat Ready Airman Branch	Chemical, Biological, Radiological, Nuclear Branch	Aircrew Performance Branch	Egress & Survival Branch	Aeromed Branch	Operations & Support Branch
<u>Air Force Uniform Office</u> 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 Manikin Girdle Tactical Cap Maternity Uniform Pilot Program Exoskeletons <u>Combat Ready Airman</u> Female Fitment Torso Extremity Protection Female Body Armor Gear Fit App Cold Weather Ensemble Mobility B-Bag Extreme Cold Operation Clothing System Cold Weather Gear	<u>HCA for Covid-19 Passengers JUON JPEO JPMs/JPLs</u> Protection, Medical Sensors, Special Ops Radiological Nuclear Defense Integration Enabling Biotechnology <u>Efforts: AF Interest</u> 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 International/SOF Fielding Light Duty Respirator Resolute Dragon	<u>Head Gear</u> <u>Aircrew Laser Eye Protection – Tech Insertion Next Gen Fixed Wing Helmet</u> Legacy Helmets Aircrew Ballistic Helmet Digital Eye Piece Next Generation Nuclear Flash Blindness Helmet Mounts <u>Body Wear</u> <u>Integrated Aircrew Ensemble</u> Cold Weather Aviation System G-Suits, Anti-exposure A2CU Flt Suit Heated Flight Clothing Aircrew Body Armor Boots/ Gloves Bladder Relief Physio Monitoring Survival Vest Aircrew Physiological Incident Monitoring/Alerting Standalone Performance Yielding Deliberate Risk	<u>Egress Systems</u> <u>B-2 Safety and Sustainability Improvement Program</u> <u>Next Generation Ejection Seat,</u> T-38 Ejection Seat Upgrade Program Seat cushion Parachutes BA-30 / BA-X Harnesses Drag Chutes <u>Survival Systems</u> Seat Survival Kit Non-Combat Survival Radio Covert Signaling Signaling Communication Improved Personnel Lowering Device Modular Aircrew Restraint Back and Leg Support Flotation Devices Life Rafts	<u>Projects</u> 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 <u>Labs</u> Aeromedical Test Lab Life Sciences Equipment Lab Materials and Textiles Lab Airmen Accommodation Lab Life Support Systems/Scientific Test, Analysis, and Qualification (supporting OBOGS)	Aircrew Flight Equipment CBRN Def Sys PS&RE: Night Vision Goggles 1800+ Items Maintained 652 Technical Orders <u>Supports Domains:</u> Egress Survival Head Gear Body Wear CBRN CRA

500,000+ Airmen --- 8,400+ Guardians --- 5,200+ Aircraft

Industrial Base Challenges

- **Becoming increasingly difficult to satisfy requirements due to diminishing suppliers**
 - Uniform design limited by material availability and manufacturing capability
 - Drives complexity with DLA Form 339 (Request for Engineering Support) submissions (e.g., material developments for 36/P, 45/P, and Maternity Advanced Aircrew Combat Uniform)
- **No Per- and Polyfluoroalkyl Substances (PFAS) solution**
- **Sole Source constraints**
 - Impacts uniform availability of AF Service Dress and Physical Training Gear
 - Lack of competition often leads to decreased quality, responsiveness, and innovation
- **Quality**
 - 250 PQDRs for fielded items – majority due to discolored/faded fabric, reflective adhesion and quality seam issues

- **Industry Base Responsiveness to enable force presentation & force generation for deployment to be combat effective more rapidly**
- **Focus on Operational Endurance of the Human Weapons System**
 - **Artic & USINDOPACOM**
- **Commonality – Enterprise Solutions Required**
- **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**

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