

Headquarters U.S. Air Force

Integrity - Service - Excellence

Air Force Civil Engineer Center *Readiness Directorate*

Engineering Agile Combat Support Worldwide



U.S. AIR FORCE



Col Mike Mendoza
AFCEC/CX
7 May 2013



Overview

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- Mission Statement
- Operational Summary
- Expeditionary Engineering
- Emergency Management
- Explosive Ordnance Disposal
- Fire Emergency Services
- Air Force Contract Augmentation Prgm
- Research, Development & Acquisition



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Mission Statement

Provide readiness support to the civil engineer community through technical information and standardized methodology, enabling civil engineers worldwide to execute their expeditionary combat support and emergency services missions safely, effectively and efficiently.



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Readiness Directorate Operational Summary

■ Areas of Responsibilities

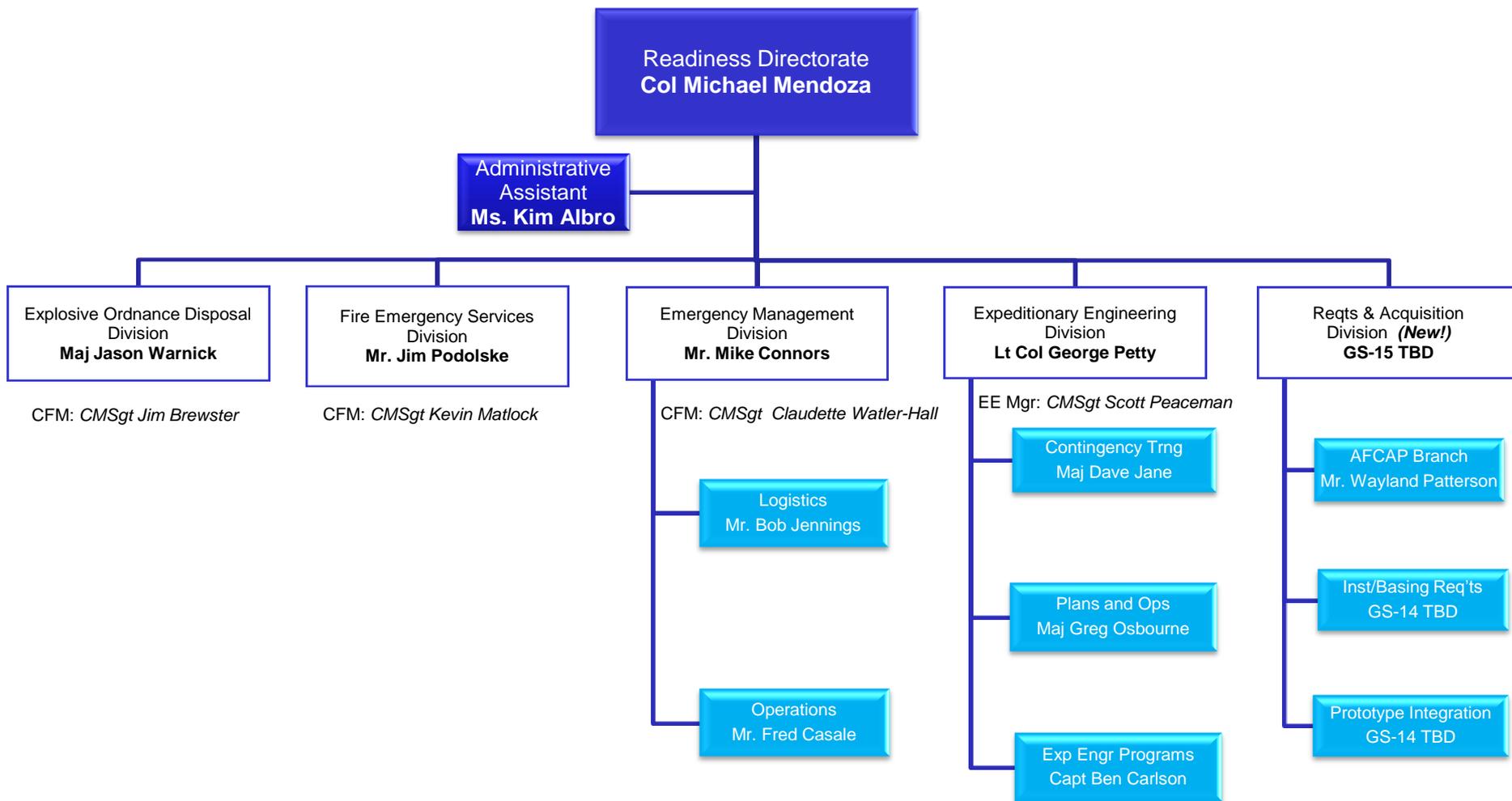
- Enabler of OT&E
- Standards, guidance, TTPs, publications
- Functional, Home Station, Contingency Training
- Equipment Management/Sustainment
- Functional SMEs
- RDT&E
- AFCAP





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New AFCEC/CX Readiness Directorate



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Readiness Directorate Process Flow





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Core Competency - Readiness



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Core Competency - Readiness



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Expeditionary Engineering Division



**Lt Col George Petty
Division Chief**



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What is Expeditionary Engineering?



RED HORSE



Prime BEEF



Specialized Teams



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Expeditionary Engineering Division Mission

Enable expeditionary engineers to execute global contingency missions through optimized deployed force structure plans, relevant training products, current publications, and modern equipment



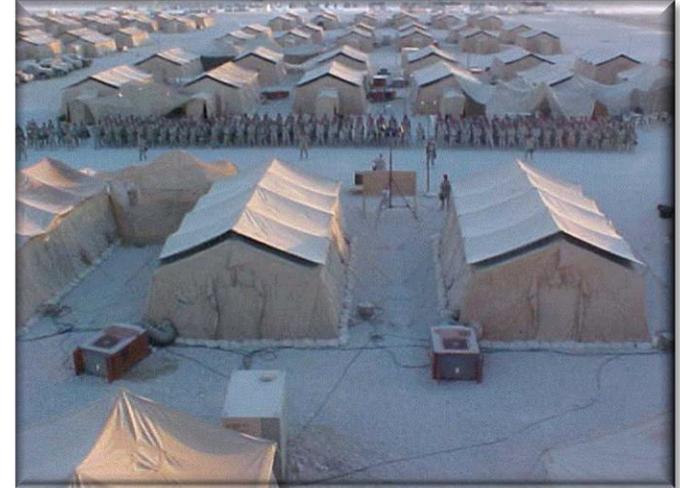
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Expeditionary Engineering Division Roles

- **Develops/maintains CE total force posturing requirements and aligns with National Military Strategy**
- **SME for AF & Joint Prime BEEF & RED HORSE expeditionary issues**
- **Program management support for Prime BEEF and RED HORSE**
- **Prime BEEF and REDHORSE MEFPAK PM**
- **BEAR Modernization & Joint Concept Technology**
- **Contingency Training Program Manager and Scheduler**
- **Publications Management**
- **Readiness Operations Center and Unit Deployment Manager**
- **Consolidated customer support/Reach Back Center for AFCEC**





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Explosive Ordnance Disposal Division



**Major Jason Warnick
Division Chief**



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EOD Division Mission

- **Serves as the focal point for EOD operational and tactical functional issues and concerns through ...**
- **AF EOD program management, which includes:**
 - **Effective total force posturing and enlisted career path management**
 - **Evaluating training and developing courses/products**
 - **Developing/reviewing publications, CONOPS, TTPs, and wartime planning documents**
 - **Developing, procuring, and fielding modern equipment**
 - **Ground munitions mgt for all AF users**





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EOD Division Mission

-all to ensure AF EOD personnel possess core competencies and capabilities to execute safe and successful global (contingency) missions



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EOD Division Roles/Responsibilities

- **Enlisted Career Field Manager**
- **EOD Subject Matter Expertise**
- **EOD Equipment Manager**
- **Munitions Manager & Trends Analysis**
- **EOD Modernization & Joint Concept Technology initiatives**
- **Functional Training Manager**
- **Contingency Training Manager**
- **Advanced Training & VIPPSA Coordination**
- **Publications Management**
- **EOD Information Management System – EODIMS**



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Fire Emergency Services Division



**Mr. Jim Podolske
The Air Force Fire Chief**

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FES Division Mission

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■ **Mission Statement:**

Develop programs and advocate for resources that enable Fire Emergency Services flights to protect Air Force people, property and the environment through preventive measures or direct intervention



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FES Major Responsibilities

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- **Programs and areas of responsibilities**
 - **Manage the Fire Vehicle Fleet**
 - 1850 Vehicles; \$750M Value
 - \$25M Annual POM
 - MAJCOMs determine vehicle replacement priority
 - **Manages FES Certification Program for DoD**
 - Course Development
 - Guides FES School
 - Paper & Web Based Training Products
 - **Centrally procures SCBA, Compressors**
 - Working on PPE with Enterprise Sourcing Group
 - Developing plan to centrally manage maintenance of training facilities





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FES Division Mission

- **Areas of Responsibilities continued**
 - ***Develops FES Policy Guidance for A7CX***
 - **AFPD/AFI/AFP/AFHB/TIGs**
 - ***Analyzes and Reports Significant Incidents to Senior Leaders***
 - **Publishes Lessons Learned**
 - ***Centrally Manages the FES Training Program***
 - **Recurring & maintenance of certification**
 - ***Centrally Manages the FES Assessment Program***
 - **Standardizes FES inspections**





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Emergency Management Division



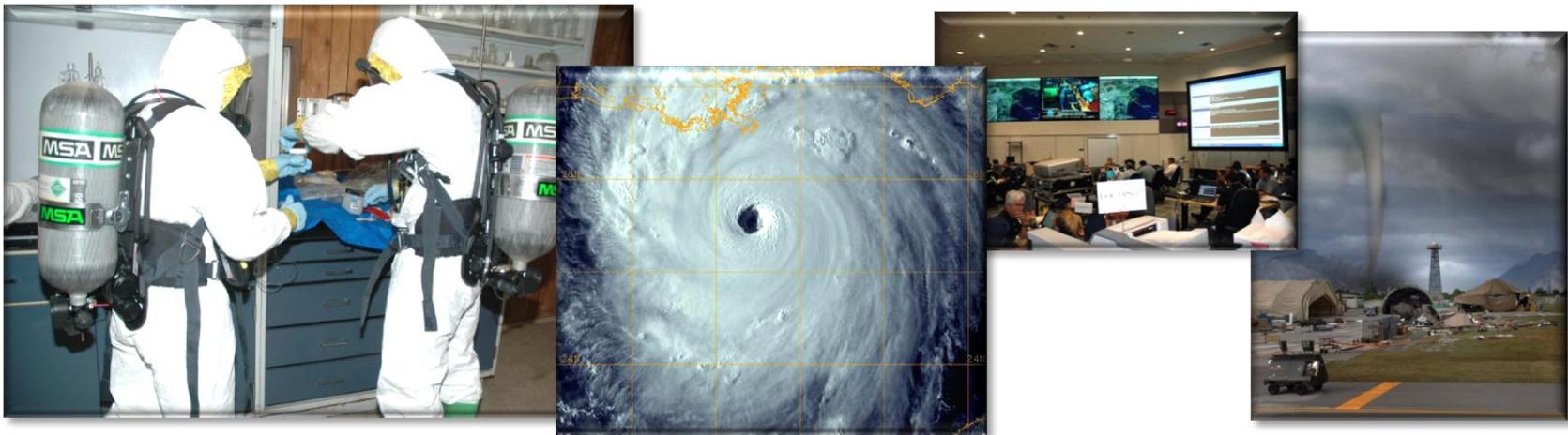
**Mr. Mike Connors
Division Chief**



Emergency Management Division Mission

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- ***Manages and oversees the Air Force's Emergency Management and Installation Protection programs that enable Airmen to effectively prepare for, respond to, recover from, and mitigate incidents. Serves as the Air Force Chemical, Biological, Radiological and Nuclear, (CBRN) subject matter experts. Spearheads CBRN equipment modernization and provides technical guidance and reach-back support to major commands and installations. Manages EM career field and installation training programs and coordinates strategic level training initiatives.***



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Emergency Management Roles/Responsibilities

- **Enlisted Career Field Management.** Provides career field direction, resolves technical issues, and provides input to manpower, training, and career field future
- **3E9 representative to the CE corporate structure (OSD EMSRG, EESPG, EM panel, etc.)**
- **SME for AF and Joint EM and C-CBRN matters**
- **Represent 3E9 interests throughout Joint Chemical, Biological, Radiological, and Nuclear Defense (CBRND) efforts**
- **Integrate and synchronize cross-functional initiatives related to EM, C-CBRN, and installation protection**
- **Leads EM and C-CBRN pgm in guidance, planning, training, and exercise development. Supports doctrine/policy development**
- **Leads all-hazards protection management**



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Emergency Management Roles/Responsibilities

- **Resource advisor for Nuclear, Biological and Chemical (NBC) and Weapons of Mass Destruction (WMD) Program budget**
- **Supports EM UTC capability through analysis, acquisition and distribution of equipment**
- **Develop/implement strategic sourcing/economy of scale initiatives**
- **Provide cross-functional doctrine and policy analysis relevant to AF EM, C-CBRN, and AF protection concepts**
- **Translates DoD, Joint and AF CBRN/EM requirements and standards into doctrine, policy, guidance and instructions (DPGI)**
- **Provide technical expertise on equipment sustainment and management of chemical warfare defense equipment (CWDE)**
- **Provides technical analysis and reach-back support for EM/C-CBRN modernization.**



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Requirements and Acquisition Division



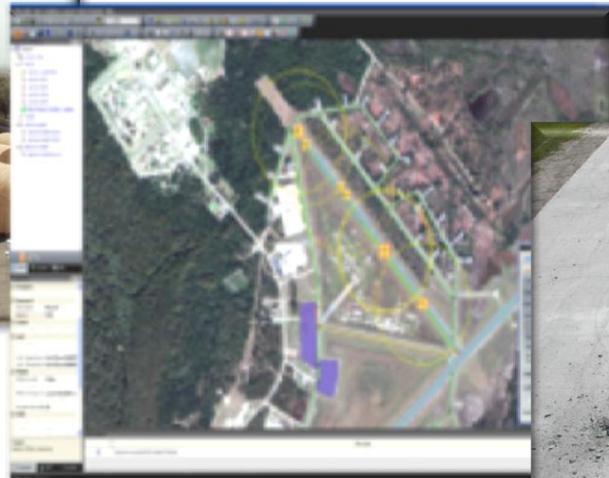
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Requirements and Acquisition Division Mission

The Requirements and Acquisition Division's mission is to plan and execute research and development programs for acquiring systems, equipment, technology, and data, as well as provide an Air Force Contract Augmentation Program capability that fulfills CE operational needs and requirements in support of expeditionary and in-garrison installations.

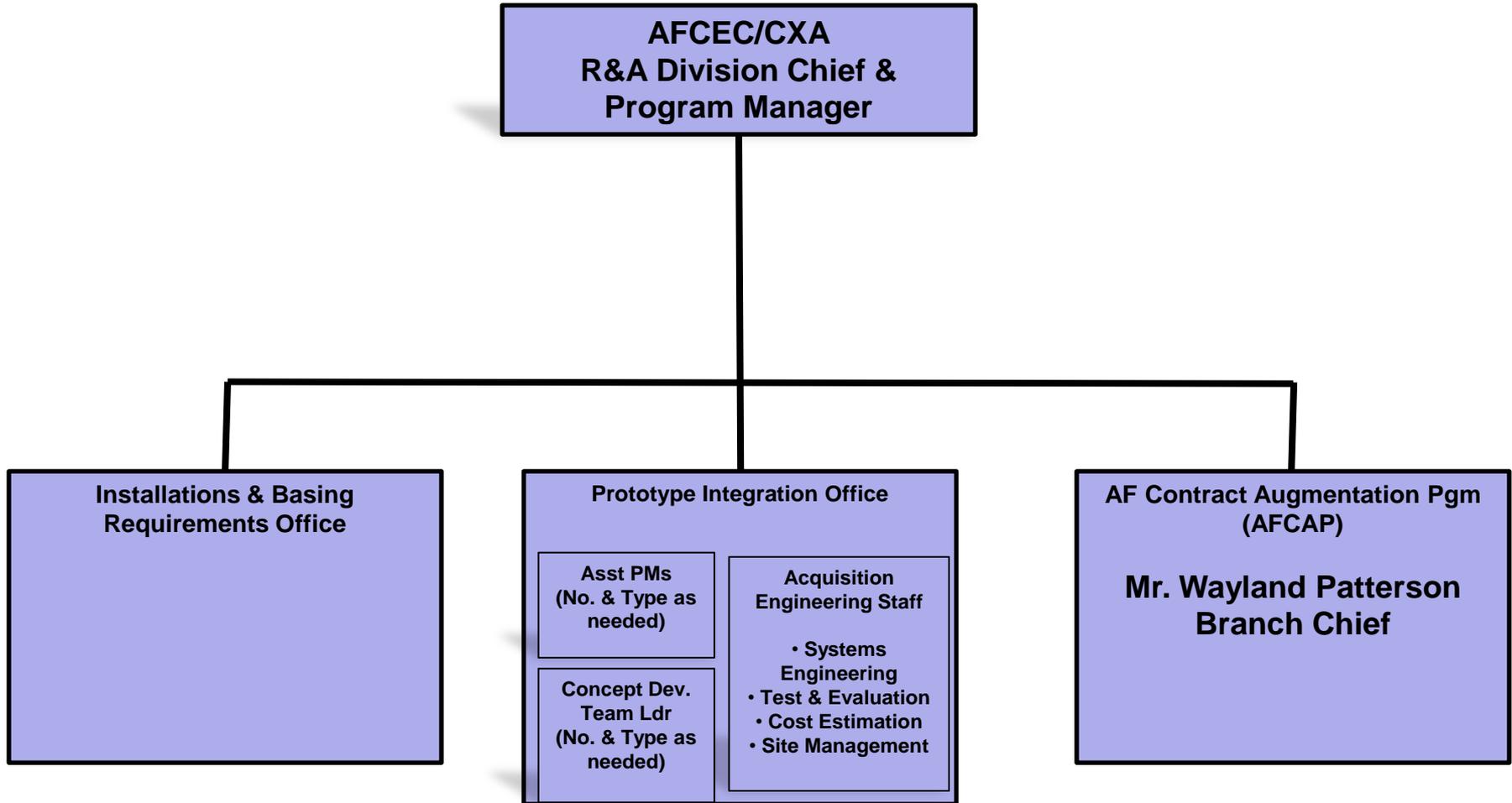


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New CE FOA Draft FOC Requirements & Acquisition Division





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AFCAP

What is it?

Definition – a contingent contract tool, teaming Government & private industry, providing responsive solutions to National Command Authority challenges -
- leveraging greater impact toward meeting urgent demands

- **Multi-year/vendor, ID/IQ-type contract, for contingencies**
- **Structured for rapid response**
- **Available to support National Command Authority**





Activity spectrum, but not limited to:

- Global War
- Major Theater War
- Regional Conflicts
- Military Exercises
- Nation Building
- Humanitarian Response/Relief
- Studies
- Political Considerations
- Full Spectrum Threat Response Support
- Disaster Response
- Military Operations Other Than War
- Small Scale Contingencies
- Base Operating Support
- Limited Range Clearance
- Worldwide Recovery Operations



New RD&A Responsibility

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- Office of Primary Responsibility (OPR) for **planning and executing programs for acquiring systems**, equipment, technology, and data to fulfill CE needs and requirements for in-garrison, expeditionary, and contingency installations and air bases
- **Replaces RXQ R&D with AFCEC/CXA Systems Acquisition**—product, not information, based enterprise
- **A new way to do business for both AFRL and AFCEC**—culture change needed on both sides of the parking lot



- **AFCEC establishing “provisional” Requirements and Acquisition Division (CXA); IOC: FY14**
 - RD&A Requirements Office: Supports Airbase/ECS req'ts development; aligns req'ts with JCIDS
 - Airbase Capabilities Office: OPR for Airbase/ECS Systems Acquisition
 - Transferring relevant RDT&E assets from AFRL/RXQ; complete: June 2013. Contracts, facilities, equipment, IT, and personnel (intellectual capital)
 - Working operations and personnel budgets for FY13 (partial) and FY14+
- **Scope of Acquisition Authority**
 - Expeditionary and in-garrison airbase systems development, integration, procurement and sustainment (full life-cycle); most well below ACAT-II/III threshold
 - Rapid prototype development and fielding for UONS; Equipment Modifications - AF form 1067
 - Military Utility Assessment (MUA) and fielding of COTS and Modified-COTS systems
 - Collaborate with LCMC or other Service Program Office for complex or ACAT-II acquisition
- **Airbase/ECS Requirements Process**
 - Coordinating with ACC, AFMC, SAF/AQP, and WR-ALC. Documentation in AFI 63-118; in progress (draft estimated 31 January)



Airbase Technologies RD&A Requirements and Priorities

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Pri	Capabilities	
1	Explosive Ordnance Disposal	1.1 Multiple UXO Removal System, Increment 3 (IN PROGRESS) 1.2 CE Emergency Responder Robotic Sys 1.3 Automated Range Clearance 1.4 Next Gen All-Purpose Remote Transport Sys
2	Airfield Damage Repair	2.1 Next Generation Airfield Damage Repair System/Equipment (IN PROGRESS) 2.2 Rapid Airfield Damage Assessment System (IN PROGRESS) 2.3 Advanced Runway Damage Repair (Next Gen Mat) 2.4 Rapid Parking Ramp Expansion 2.5 Ultra-High Strength Concrete and Joint Sealant 2.6 Next Gen Soil Stabilization Materials
3	Expeditionary Facilities/Utilities	3.1 BEAR Smart Shelter System 3.2 BEAR Installation Load/Power Mgt Sys 6.1 Phase Change Material for Expeditionary Sys 3.3 BEAR Large Shelter Tech for Energy Mgt 3.4 Grey Water Recovery 3.5 Solar Energy Alternatives for Expeditionary Systems
4	Fire/Emergency Services	4.1 JFIRE Modification, Phase III 4.2 Next Generation Fire Retardants
5	Emergency Management	5.1 Alt Energy for Wartime CBRN Threat Detection Grid 5.2 Multi-Use PPE
6	Efficient, Effective Infrastructure & Natural Infrastructure Stewardship	6.1 Black Water Disposal 6.2 Expeditionary Hazardous Waste Disposal Technologies
7	In-Garrison Applications	7.1 EMP Impact on Power Grids and AoA 7.2 BIM Applications for Military Installations 7.3 Carbon Nano-Tube Applications for Facilities 7.4 Power Stabilization Technologies 7.5 Facility Utilization Efficiency Toolkit 7.6 Electromagnetic Shielding for Fixed Facilities



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New Division RD&A

Provide Transformational Science and Engineering Solutions
for Agile Airbase Operations



Air Force
Weapons Laboratory
1964-1972



Air Force Civil
Engineering Center
1972-1979



Air Force Civil
Engineer Center
2013 - Present



Air Force Engineering
and Services Center
1979-1992



Air Force
Research Laboratory
1997 - 2013



Wright Laboratory
Armstrong Laboratory
Support Agency
1992-1997



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Questions?



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