Air Force Civil Engineer Center

Director's View

Randy Brown
Director
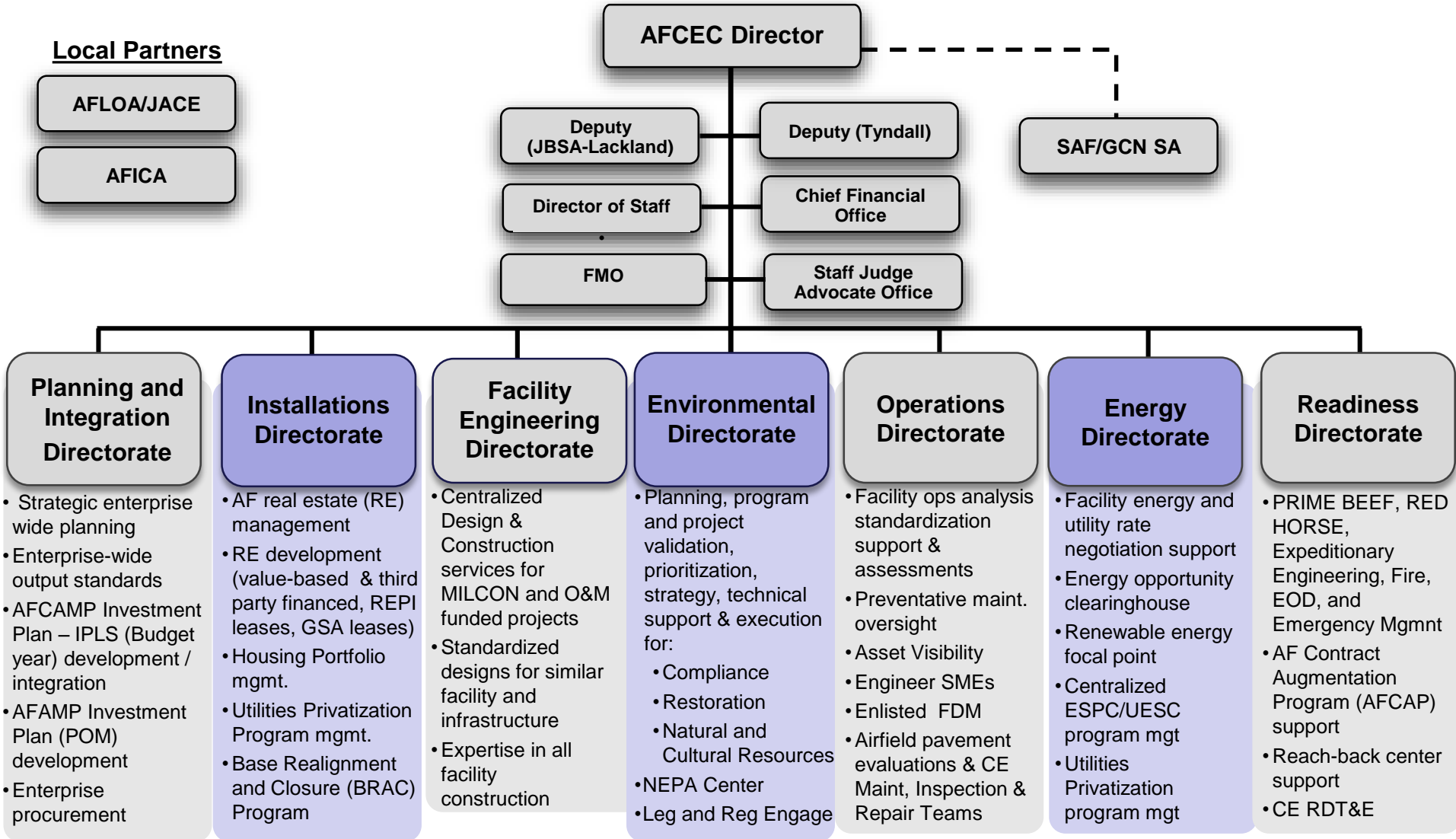4 May 2017

AFCEC Organization

Local Partners

- AFLOA/JACE
- AFICA

AFCEC Director

- Deputy (JBSA-Lackland)
- Deputy (Tyndall)
- SAF/GCN SA
- Director of Staff
- Chief Financial Office
- FMO
- Staff Judge Advocate Office

Planning and Integration Directorate

- Strategic enterprise wide planning
- Enterprise-wide output standards
- AFCAMP Investment Plan – IPLS (Budget year) development / integration
- AFAMP Investment Plan (POM) development
- Enterprise procurement

Installations Directorate

- AF real estate (RE) management
- RE development (value-based & third party financed, REPI leases, GSA leases)
- Housing Portfolio mgmt.
- Utilities Privatization Program mgmt.
- Base Realignment and Closure (BRAC) Program

Facility Engineering Directorate

- Centralized Design & Construction services for MILCON and O&M funded projects
- Standardized designs for similar facility and infrastructure
- Expertise in all facility construction

Environmental Directorate

- Planning, program and project validation, prioritization, strategy, technical support & execution for:
  - Compliance
  - Restoration
  - Natural and Cultural Resources
- NEPA Center
- Leg and Reg Engage

Operations Directorate

- Facility ops analysis standardization support & assessments
- Preventative maint. oversight
- Asset Visibility
- Engineer SMEs
- Enlisted FDM
- Airfield pavement evaluations & CE Maint, Inspection & Repair Teams

Energy Directorate

- Facility energy and utility rate negotiation support
- Energy opportunity clearinghouse
- Renewable energy focal point
- Centralized ESPC/UESC program mgt
- Utilities Privatization program mgt

Readiness Directorate

- PRIME BEEF, RED HORSE, Expeditionary Engineering, Fire, EOD, and Emergency Mgmnt
- AF Contract Augmentation Program (AFCAP) support
- Reach-back center support
- CE RDT&E

AFCEC: BATTLE READY...BUILT RIGHT ...

EVERYWHERE!

USAFE 'Storefront'
Ramstein AB, Germany

AFCEC Det. 1
Tyndall AFB, Florida

AFCEC HQ
Joint Base San Antonio-Lackland, Texas

PACAF 'Storefront'
Joint Base Pearl Harbor -Hickam , Hawaii

Business Opportunities

www.afcec.af.mil

All Solicitations

Projects executed by AFCEC (SATOC, AE13, GEITA, etc)

Construction, Environmental, and Housing Projects with authority (majority executed by installation)

Top Issues

- **FY17/18 Funding Situation**

- **Mission, Installation, & Energy Resiliency**

- **Execution of High Visibility Projects**
  - **European Infrastructure Consolidation**
  - **European Reassurance Initiative**
  - **MILCON & FSRM**

- **Drinking Water & PFOS/PFOA/AFFF**

Top Issues

- **Data Informed Decision Making**
  - **Integrated Priority List (IPL)**
  - **Construction Tasking Order (CTO)**
- **TRIRIGA**
- **Support to Installations**
  - **Planning**
  - **Ops**
- **Airfield Damage Repair**

CE ICS Cybersecurity Initiative
Air Force Mission Assurance

SCADA Systems

DCS Systems

PLC Systems

Air Force CE ICS

Unsecure CE ICS Infrastructure is a Threat to the Air Force Mission

CE ICS Cyber Vulnerabilities Jeopardize Critical Infrastructure that Enable Air Force Operations

Supporting and Resourcing CE ICS Cybersecurity Provides Mission Assurance

Cyber Resilient Infrastructure is Essential for Mission Assurance

CYBERATTACK TARGETS

SCADA · DCS SYSTEMS · PLC SYSTEMS
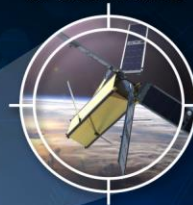
CRITICAL INFRASTRUCTURE IMPACTED

POWER · WATER · COMMUNICATIONS

UNSECURE CE ICS INFRASTRUCTURE = THREAT TO AF MISSION

SPACE & SATELLITE OPERATIONS

RADAR OPERATIONS

AIRFIELD OPERATIONS

COMMAND POST GENERATOR

DATA CENTER FACILITY

DISRUPT **AIR FORCE SUPPORT** TO **COCOM MISSIONS**

AIR FORCE MISSION IMPACTS
- Air and Space Superiority
- Intelligence, Surveillance and Reconnaissance
- Rapid Global Mobility
- Global Strike
- Command and Control

CE ICS Cybersecurity Initiative
CE ICS SDDP *Approved Capabilities*

CURRENT STATE

Lack of CE ICS Asset Visibility
- Ineffective resource management (e.g., manpower, equipment, funding requirements)
- Inability to efficiently assess condition and energy consumption of assets

Lack of Standardization
- Disparate CE ICS that cannot be effectively managed
- Lack of secure data integration and visibility

Vulnerable to Cyber-Attacks
- Disruption/failure of Air Force mission operations

Non-Compliance with LRPs
- DODI 8510.01, *RMF for DOD IT*
- DODI 8500.01, *Cybersecurity*

Decentralized CE ICS
- Acquisition, management, security, maintenance, sustainment, and operation

Process Improvements

- *Gaps between Current and Future State*

FUTURE STATE

Enterprise-Wide, Integrated ICS Asset Visibility and Reporting
- Automated collection and reporting of ICS data
- Integrated data from diverse and disparate ICS

Standardization of ICS
- Standardized ICS equipment, interfaces, processes, and contracts

ICS Security Risk Mitigation
- Continuously monitored networks → increased resiliency against cyber-attacks and non-malicious events

Enterprise-Wide ICS Planning
- Centrally managed resources
- Data-driven decision-making

Enterprise-Wide ICS Maintenance and Sustainment
- Effectively managed performance and health of ICS networks

The Enculturation of a Secure and Effectively Managed CE Cybersecurity Enterprise

AIR FORCE CIVIL ENGINEER CENTER