4th Civil Engineer Squadron

SAME Luncheon
Hosted by 4 CES

Lt Col Andrew Cullen
4 CES Commander

2 Nov 17

This Briefing is:
UNCLASSIFIED
Overview

• Seymour Johnson AFB & the 4th FW
• The 4th Civil Engineer Squadron
• KC-46 Beddown
• Questions
• Base Tour
Seymour Johnson AFB
- Established in 1942 as P-47 Technical School
- Only AFB Named After a Naval Officer
- Deactivated 1946-1956

4th Fighter Wing:
- 4th FG Founded 12 Sept 1942
- WWII Record Setting Combat Earned Motto “4th but First”
- Accounted for 54% of Destroyed Aircraft in Korean War
- Arrived at SJAFB in Dec 1957
- Converted to F-15E Strike Eagles in 1988

Home to 4 FW, 916 ARW & 567 RHS
4 FW Priorities & Mission

4 FW Priorities

- Executing the Mission
- Leading People
- Improving the Unit
- Managing Resources

Dominant Strike Eagle Airpower...Anytime, Anywhere!
The 4 CES AOR...

SJAFB Demographics
12,478 personnel

- Active Duty
- Guard/Reserve
- Civilians
- Dependents

Real Estate
$3.6B Incl 2 GSUs

94 F-15Es

16 KC-135Rs

2019 KC-46A
The 4 CES AOR…

- 378 facilities & infrastructure worth $3.6B
- 50,800 acres land, including 2 GSUs
- 68 miles of base roads; 13 miles of fencing
- 35 miles of electrical lines
- 132 miles of water, sewer, gas, and fuel lines
- 500 heating and air conditioning systems
- 11,758 foot runway (2.2 miles)
- Work Order Requests: 7.9K per year
- 58% of 4 FW’s O&M budget
- $435M SRM/MILCON & $5.3M in Service Contracts
- 11 Dorms / 779 Rooms
- 686 Housing Units (Privatized)
4 CES Specific Resources

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As of Oct 17
4 CES’s
3 Primary Roles

EMERGENCY SERVICES LEADERSHIP

Explosive Ordnance Disposal (CED)
Capt Daniel Lange

Fire Emergency Services (CEF)
Mr. Sean Quinby

Readiness and Emergency Mgt (CEX)
Lt Shawn Pennie

WORLD CLASS SUPPORT

Installation Management (CEI)
Mr. Buck Abrams, PE

Operations (CEO)
Maj John Casey

Engineering (CEN)
Mr. Brian Joyner, PE

COMBAT READY ENGINEERS

Commander
Lt Col Andrew Cullen

Chief Enlisted Manager
CMSgt Donald Winchester

First Sergeant
MSgt Doug Harriman

Deputy Commander
Mr. Dennis Goodson, PE

Deputy Commander
Mr. Dennis Goodson, PE

Installation Management (CEI)
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Readiness and Emergency Mgt (CEX)
Lt Shawn Pennie
CE Career Field’s: Air Force Specialty Codes (AFSC)

- 32EXX – CE Officer: Const/Psnl Mgmt, Base Plng, Recovery Plng
- 3E0X1 – Electric: Pwr Distro, Int Elect, Controls, Alarms, AF Lighting
- 3E0X2 – Power Production: Generators, Aircraft Arresting Systs
- 3E1X1 – HVAC: Env Conditioning, Refrigeration, Boilers, ECUs
- 3E2X1 – Pavements & Const Equip: Heavy Equip, Horz Const
- 3E3X1 – Structures: Carpentry, Metals, Masonry, Vert Const
- 3E4X1 – Water & Fuels Syst Mx: Water, Sanitary Sewer, Fuels, Gas
- 3E4X3 – Pest Mgmt: Entomology, BASH Prgm
- 3E5X1 – Engineering: Drafting, Surveying, Engineer Supt, Recovery Planning
- 3E6X1 – Operations Mgmt: C2, Scheduling, Material Mgmt, Cust Svc
- 3E7X1 – Fire: Fire Protection/Prevention, First Responder
- 3E8X1 – EOD: Ordinance Disposal, VIP Support
- 3E9X1 – Readiness & Emergency Mgmt: CBRNE, Disaster Prep, Mobility Plngs

Also AFSCs for CEM, First Sergeant, Trng Mgr, Admin Spt & Dorm Mgrs
Emergency Services Leadership

Explosive Ordnance Disposal (CED)
Capt Daniel Lange

Fire Emergency Services (CEF)
Mr. Sean Quinby

Readiness and Emergency Mgt (CEX)
Lt Shawn Pennie
Fire Emergency Services
Flight (CEF)

Flight Chief
Mr. Sean Quinby

Operations Element (CEFO)
Training Element (CEFT)
Fire Prevention Element (CEFP)

CEF Mission: 
Protect the 4th – First!
Respond to calls for service from the community with the goals of saving lives, property, and protecting the environment. We will provide a cost-effective and courteous service with professionalism and pride.

CEF Motto:
Do What’s Right!

FY 2016 Total Incident Responses

Challenges
• Vehicles (Age & Maint)
• RLS (Deployments/PCS)
• Flight line Extinguishers
• SCBA Maintenance
• Rescue Cert Training

Priorities
• Lead First
• Training is Paramount
• Prevention is Key

Average 64 per Month
Explosive Ordnance Disposal Flight (CED)

Mission: Provide a safe operating environment for air & space systems; protects personnel and property; locates, identifies, disarms, neutralizes, recovers, and disposes of hazardous explosives, conventional, chemical, biological, incendiary, and nuclear ordnance; and criminal or terrorist devices

Capabilities:
- Provide the best equipped and highly skilled EOD professionals able to effectively accomplish all mission areas in support of the 4 FW, ACC, USAF & Combatant Commanders
- Maintain 24-hour response capability
- Provide special mission support teams for USSS taskings and indirect support to nuclear weapons incidents

Challenges:
- Time to complete training (per AFI 32-3001, each person must train for 24 hrs/wk)
- Wartime Skills Fade: EOD mission tempo and scope has changed over last 24 months, this has limited opportunities to prepare new techs for battlefield ops

Successes:
- 1st ACC unit to establish a GS position ensuring ops continuity
- All EOD personnel and families serviced under Flight Medicine
- ACC IG recognized EOD Supply Program as Best Practice
- Zero Discrepancies in 2017 UEI Capstone - SrA Banden recognized as UEI Superior Performer/coined by IG

Personnel O/E/C Total
Authorized 1/23/1 25
Assigned 1/17/1 19
Deployed 0/5/0 5

EOD Activity 2017 - YTD

VIPPSA Support
Aircraft Responses
UXO Responses
DCBR Clearance
Training TDY
AEF Taskings

Follow Us
**Readiness and Emergency Management Flight (CEX)**

**Flight Commander**
Lt Shawn Pennie

**Emergency Management Element (CEXM)**

**Expeditionary Engineering Element (CEXE)**

**MISSION:** Provides Installation Emergency Management (EM) and counter Chemical, Biological, Radiological and Nuclear (CBRN) planning, training, and response; enables expeditionary engineering through management of Prime Base Engineer Emergency Force program

**4 CES/CEX Capabilities:**
- CBRN/HAZMAT response equipment
- HAZMAT Technician certified responders
- Emergency Operations Center (EOC) Managers
- Liaison with Wayne County Emergency Services
- Squadron deployment and contingency training managers

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**Challenges**
- Provide CBRN Defense training to 4,000+ personnel
- Manage/maintain Emergency Operations Center
- Develop/coordinate Installation EM Plan 10-2
- Develop CE Contingency Response Plan
- Prepare/train ~250+ CE personnel for deployment
World Class Support

Installation Management (CEI)
Mr. Buck Abrams, PE

Operations (CEO)
Maj John Casey

Engineering (CEN)
Mr. Brian Joyner, PE
Installation Management Flight (CEI)

Mission: Provides integrated mgt of natural infrastructure and real property to effectively execute the installation’s mission, and maintain environmental compliance. Delivers comprehensive financial mgt, IT and force mgt while executing financial policy and resource control. Partners with Housing Privatization owner to provide world-class housing. Manages ten dorms (722 rms) for Unaccompanied Housing.

Capabilities:
- Experienced in-house engineers accomplish required environmental actions without costly contracts
- Provide thorough Resource Mgt for entire CE Sq.
- Provide one-stop service for IT support/solutions

Challenges:
- Managing largest MSG SQ IT system with reduced staff
- Maintaining environmental compliance with reduced staff
- Provide 100% Real Property support to asset management functions

Successes:
- Won 2016 ACC Maj Gen Eulberg Award (Asset Management)
- Won 2016 ACC Maj Gen Thompson Award (Resources)
- 22 years with no finding in NCDEQ HazWaste inspections
- NCDEQ approved Watershed Protection Plan – eliminates storm water holding ponds – makes flying safer

Flight Chief
Mr. “Buck” Abrams, P.E.

Asset Accountability (CEIA)
Environmental (CEIE)
Housing Mgmt (CEIH)

Personnel | O/E/C | Total |
---|---|---|
Authorized | 0/5/21 | 26 |
Assigned | 0/5/21 | 26 |
Deployed | 0/0/0 | 0 |

ENVIRONMENTAL REGULATORY INSPECTIONS

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<th>Year</th>
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**Operations Flight (CEO)**

**Flight Commander**
Maj John Casey

**Facility Systems Element (CEOF)**

**Heavy Repair Element (CEOH)**

**Infrastructure Systems Element (CEOI)**

**Operations Engineering Element (CEOE)**

**MISSION:** Provides effective and efficient lifecycle operation, maintenance, and repair of facilities and infrastructure; maintains and operates base-wide CE customer interface; ensures wartime and contingency skill training of assigned military personnel

4 CES/CEO has craftsmen & support personnel in 15 diverse shops to provide in-house maintenance, repair and minor construction

**Challenges**

- Deployment impacts shop manning & ability to respond to customer requirements
- TRIRIGA
- Training/Certifications
- WO Supply

- **Work Order Requests:** 7,880 in FY16
- **Craftsman Labor Hours:** 234,887 in FY16
- **Work Order Supplies:** $2.1M/year (Avg)
- **Average Spend Rate:** $4.1K/work day
- **Service Contracts:** 23 worth $2.4M

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**Work Order Supply Funding**

- FY12: $2.0M
- FY13: $2.2M
- FY14: $2.1M
- FY15: $2.2M
- FY16: $2.0M
**Engineering Flight (CEN)**

**Mission:** Provides project planning, program development, design, project management, contract execution, and squadron technical support. Executes design and contract construction of funded facility projects.

**Challenges**
- Workload exceeding production capacity
- Contractor Officer Representative (COR) responsibilities
- O&M centralized funding
- Significant IT transitions – TRIRIGA
- Encroachment Analysis – DCBR (REPI), Wind Farms, Solar Glare Hazards, compatible development, JLUS

### Construction Program

- FY14 program: O&M at $66.3M
- FY15 program: O&M at $19.2M; MILCON at $11.3M
- FY16 program: O&M at $44.9M; MILCON at $9.5M

### Personnel

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<td>Civ Vacancies</td>
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• Project: Construct Two-Bay Corrosion Control/Fuel Cell Hangar (MILCON)

• Contractor: Walbridge Aldinger, LLC (Charlotte, NC)

• Contract Awd Date: 27 Sep 17

• Contract Awd Amount: $56,516,690

• Contract Duration: 730 Calendar Days

• Construction Agent: Savannah District, U.S. Army CoE
KC-46A BEDDOWN HANGAR
KC-46A BEDDOWN
HANGAR RENDERING
KC-46A BEDDOWN
FY17 CONSOLIDATED PROJECTS

- Projects:
  - Bldg 4822 Alterations & Pallet Storage Facility (MILCON)
  - Bldg 4908 Alterations and Roof Replacement (FSRM)
  - Bldg 4916 Alterations / Bldg 4906 Addition (MILCON)
  - Bldg 4810 Alterations (FSRM)

- Contractor: Southeast Cherokee Construction, Inc. (Montgomery, AL)

- Contract Awd Dt: 25 Sep 17

- Contract Awd Amount: $9,635,420

- Contract Duration: 540 Calendar Days

- Construction Agent: Savannah District, U.S. Army CoE
KC-46A BEDDOWN
CONSOLIDATED PROJECTS
4th Civil Engineer Squadron

- Questions?
- Bus Tour

Engineers...Lead the Way!