



6th Civil Engineer Squadron

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Director/Base Civil Engineer



Overview

- **THE 6 CES TEAM**
- **6 CES PORTFOLIO**
- **FY20/21 FSRM and MILCON**
- **Other Initiatives and Challenges**



Mission

Provides explosive ordnance disposal, emergency management and air base operability, environmental quality, fire emergency services, and housing support for 6 AMW, USCENTCOM, USSOCOM, JCSE, SOCCENT, MARCENT and 28 other mission partners with a base population of 19,000. Plans, programs, designs, constructs, operates, and maintains 672 base facilities, totaling over 5 million square feet, on a 5,700-acre installation valued at over \$2.5B.

Vision

Operate as a world class organization by being the most efficient and effective AF Civil Engineer Squadron demonstrated through home station support and preparing readily deployable Airmen



History

- **Nov 1999 – Squadron Undergoes Direct Conversion**
- **Jun 2007 – Converted CC to Civilian Director**
- **Nov 2007 – Award Housing Privatization Project**
- **Jul 2010 – Start of New Contract with Akima/IAP**
- **Mar 2011 – Privatized Water & Wastewater Infrastructure Systems**
- **Sep 2012 – Privatized Natural Gas Infrastructure**
- **Apr 2015 – AFAA Conducted Oversight Audit**
- **Sep 2015 – Began 6 CES Internal Restructuring**
- **Jun 2019 – Restructuring Complete**



Current

■ Complex Business Relationships:

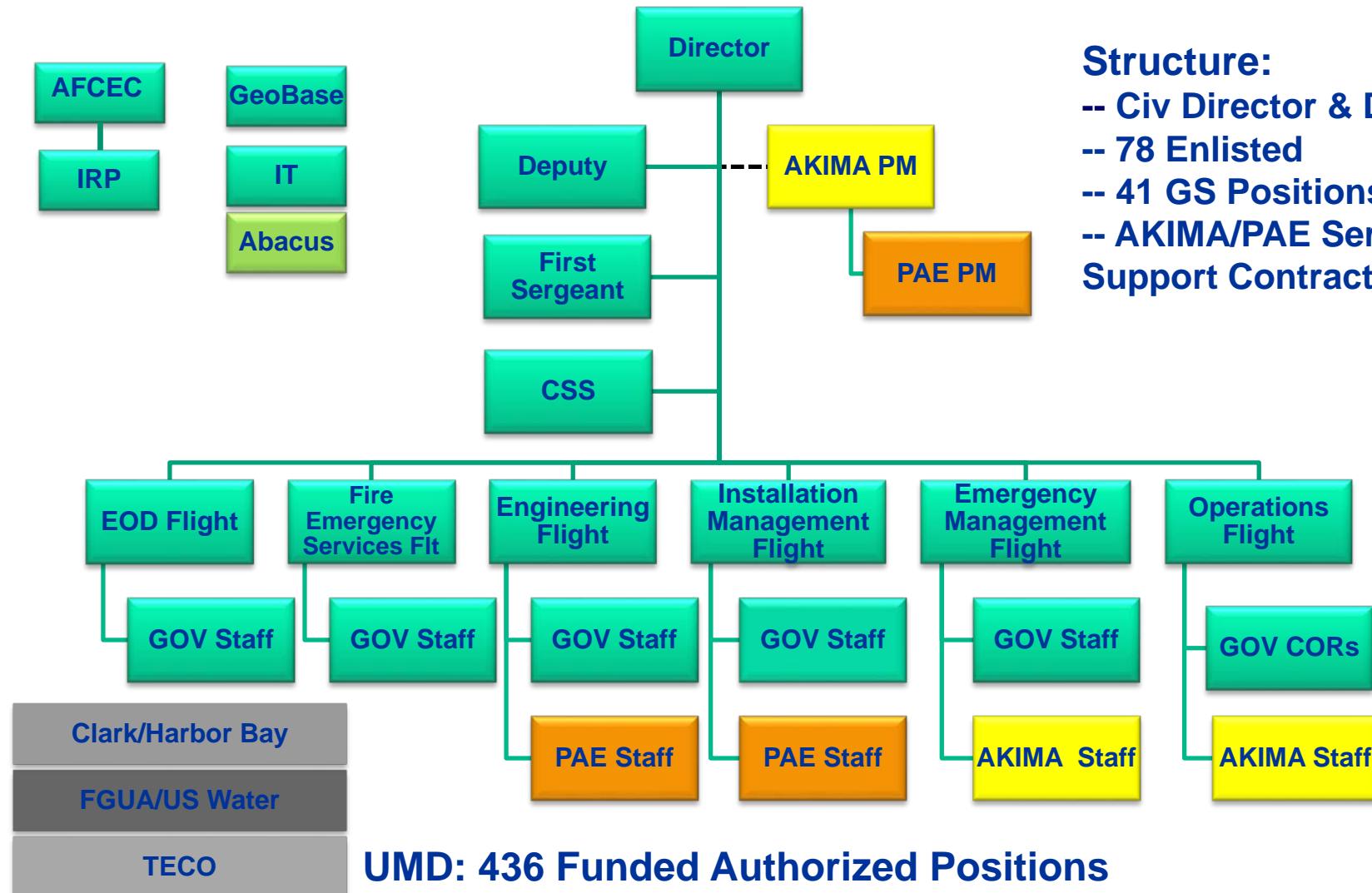
- AKIMA/PAE – Civil Engineer Services Support Contract
- CBRE – Energy Consulting Services
- Hydrogeologic, Inc (HGL) – Contract for ERA site cleanup
- Clark/Harbor Bay – Housing Privatization Partners/Property Mgrs
- ENSYNC Diversified Management – Entomology Services
- FGUA/US Water – Water/Wastewater System Owner/Operator
- MACC/MATOC – 5 Total Contractors; increasing w/new MACC
- PenBay/Photoscience – IT Services Support in CE
- TECO Peoples Gas – Natural Gas System Owner/Operator

■ Typical CE Contracts – Big 3

- SC Jones – Grounds Maintenance Contractor
- GCE (Gulf Coast Enterprises) – Custodial
- Six Nation – Refuse and Recycling



Current Org Chart



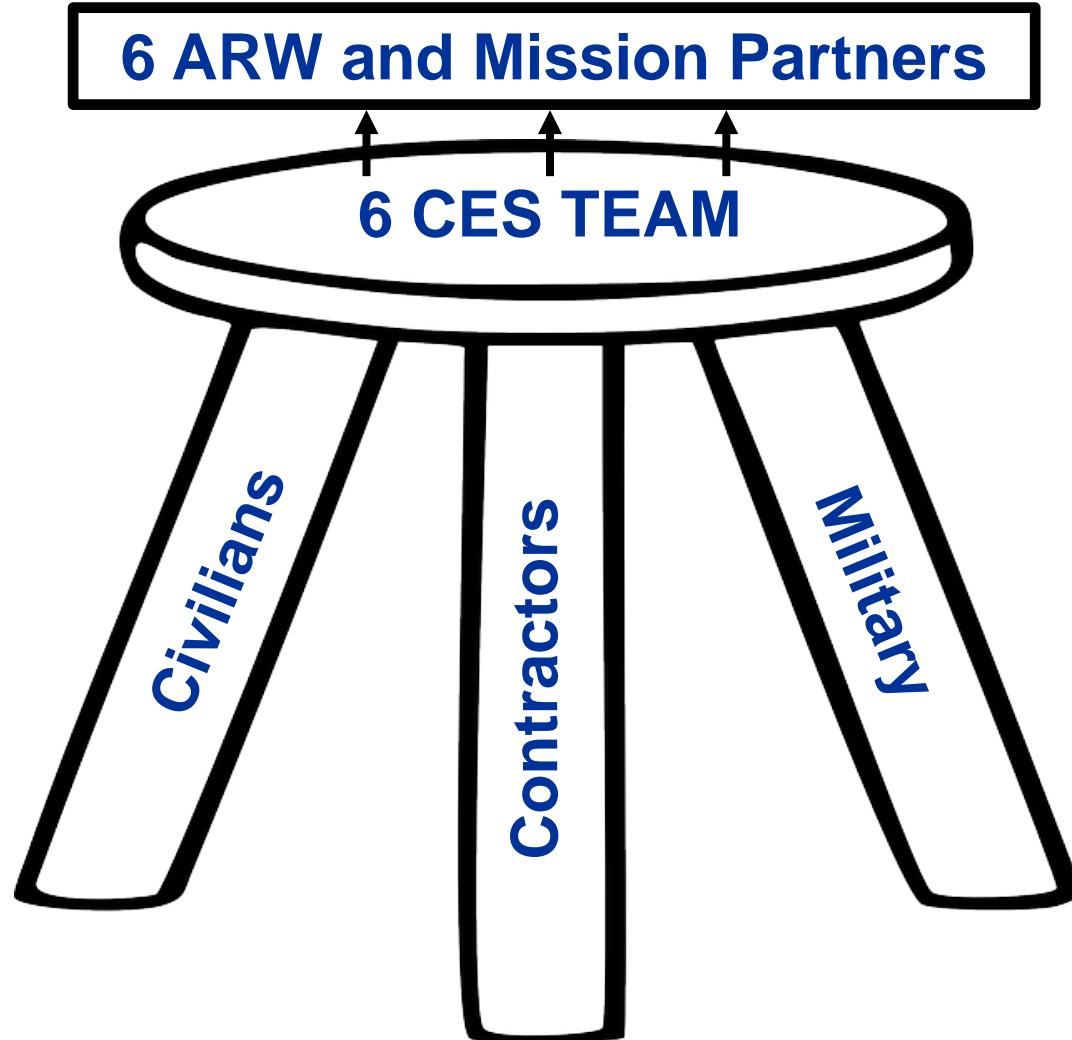
Structure:

- Civ Director & Deputy
- 78 Enlisted
- 41 GS Positions
- AKIMA/PAE Service
- Support Contractors

UMD: 436 Funded Authorized Positions



6 CES Total Force





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MacDill AFB Portfolio

We Have a Big Challenge!



MACDILL ASSET PORTFOLIO

FACILITIES

276 Buildings
5.1 M SF Total

COCOMS & MPs

2.4 M SF

BASE SUPPORT

2.0 M SF

FLYING MISSION

624K SF

HOUSING

572 Units

448 Visitors Qs

390 Dorm Rooms

TRANSPORTATION

AIRFIELD
11,000 FT Runway
921,269 SY Apron

PAVEMENTS

44 Miles Roadway

WATERWAYS

2 Channels,
47 Docks
3000' Exclusion Zone

UTILITIES

ELECTRICAL
58 Miles of High Voltage DIST

WATER

76 Miles OF DIST

SEWER

48 Miles OF DIST
WWTP

GAS

25 Miles OF LINE

SECURITY & MISSION

6 Mile Land perimeter

8.6 Miles Water Perimeter

4 Entrance Gates

24 Aircraft

19,000+ Populous

NATURAL

1195 Acres Wetlands

25 Protected Species

21 Clean Up Sites

80% in 100-yr Flood Plain

Prepared, Professional, Responsive -- Building the Future!



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Design/Construction Execution

- **\$25M in In-House Annual Design Capacity and Prepare Projects as Either Design/Build or Design/Bid/Build**
- **Majority of Program Executed Through 6 CONS by our MACC and MATOC Design/Build Contractors**
 - MATOC is used for smaller projects < \$1M
 - MACC used for larger, more complicated projects
 - In the process of awarding a new MACC; ECD: late Jun 20
- **Corps of Engineers is construction agent for MILCON**



FY21-25 BCAMP Guidance

- Projects competing for Centralized (BCAMP/AFCAMP) funding must be:
 - > \$2M (Sustainment repair)
 - > \$1M (Restoration & Modernization)
- Projects below this threshold compete for Decentralized funding
- Decentralized funding amount based on formula
 - %FSM (Facility Sustainment Model) (60% Variable)
 - SMS Data Currency & Completeness (10% Variable)
 - Prior Yr Obligation Rates (30% Variable)



FY20 CENTRALIZED FSRM PROJECTS



Project #	Project Title	PA (\$K)	Program	Status
19-0006	Repair Roofs, MFAC	>\$1M	FY20	Awarded
17-00743	Repair HVAC Chapel B355	>\$1M	FY20	Awarded
14-0138	Repair HVAC PAX Term, B90	>\$1M	FY20	Awarded
17-0089	RPR Grounding Points Approach Pier B1603	<\$0.5M	FY19 Retained	Awarded
11-0204	Convert B378 Back to Dorm	>\$5M	FY19 Retained	Awarded
13-0040	Repair HVAC DUC B71	>\$1M	FY20	Designed
16-0123	Rpr HVAC & Renovate COMM Fac B262	\$0.5 - \$1M	FY19 Retained	Bid
17-0034	Repair Taxiway Kilo & Lima	>\$1M	FY20	Designed
18-0058	Convert H5 to KC135 Fuel Cell Maint Hgr	>\$5M	FY20	Designed



FY20 DECENTRALIZED FSRM PROJECTS



Project #	Project Title	PA (\$K)	Status
16-0003	Maintain Airfield Markings	>\$1M	Awarded
18-0084	Maintain Paint MFAC	<\$0.5M	Awarded
19-0034	Repair Base Pavements & Parking Lots	>\$1M	Awarded
19-0103	Repair PDS between B501 (SOCOM) and B570 (CENTCOM)	<\$0.5M	Bid
19-0090	Replace HVAC Chiller, Control Tower	<\$1M	Awtg Bid
19-0042	Replace HVAC Chiller, Hangar 4	<\$1M	At CONS
19-0104	Repair HVAC System Bldg 926	>\$1M	At CONS
17-0095	Repair Taxiway Signage	>\$1M	At CONS



POTENTIAL FY20 MISSION PARTNER-FUNDED PROJECTS



Project #	Project Title	PA (\$K)	Status
16-0112	Replace HVAC Bldg 530	<\$0.5M	Bid
17-0007	Renovate MFRC, Bldg 38	<\$1M	At CONS
19-0076	Repair CENTCOM Utility Plant Chiller	<\$0.5M	Designed
19-0094	Replace Roof Bldg 1047	<\$0.5M	Designed
20-0007	Repair HVAC DFAC, Bldg 263	<\$0.5M	Designed
20-0001	Repair CDC HVAC, Bldg 381	>\$1M	Designed



FY21 CENTRALIZED FSRM PROJECTS

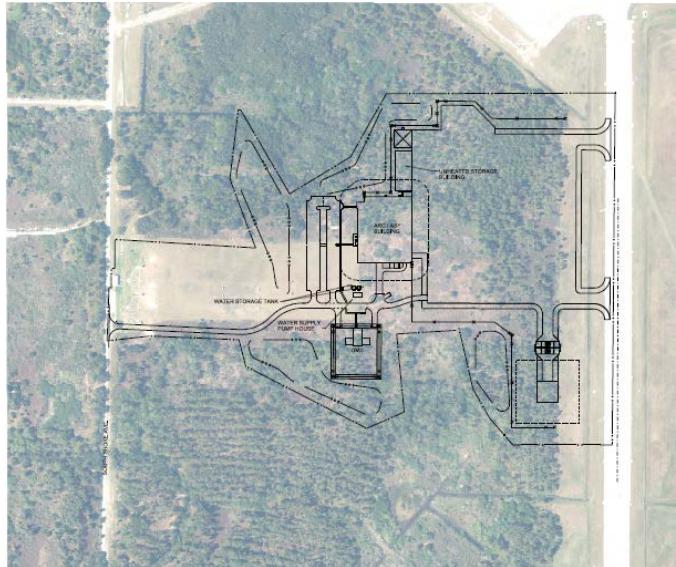


Project #	Project Title	PA (\$K)	Program
16-0145	Upgrade Lighting MFAC	>\$1M	Savings
18-0061	Demo Boat Maintenance Yard B665	<\$0.5M	Demo
18-0062	Demo Old DRMO Warehouse B1110	<\$0.5M	Demo
19-0028	Demo Former Dorm B372	<\$0.5M	Demo
19-0029	Demo Former VQ B390	<\$0.5M	Demo
17-0024	Reconstruct North Apron Sections	>\$1M	UPL



Ongoing MILCON Projects

- Army Reserve Beddown – 200-member Army Reserve Center and Aviation Support Facility for 8 UH-60 and 15 HH-60 Blackhawk helicopters





Ongoing MILCON Projects

- **New OG/MXG HQ - 14,548 SF facility including offices, administration and ancillary space**
- **Flight Simulator Addition - 4,946 SF addition and reconfigure interior space for an additional flight simulator bay**





Future UMMC/DLA/MILCON Projects

- **FY21-23 Potential UMMC - ADAL B1066 for Pass & ID -** Adds 3,900 SF to & alters 4,300 SF to create a properly configured & adequately sized Pass & ID facility (>\$1M)
- **FY24 - Add/Alter Fuel Hydrant System –** Adds 894 linear meters of pipe and 3 fuel hydrant pits (>\$5M)
- **FY25+ - Replace Fire Station 2 –** Current station built in 1941; corrects safety hazards and meet response times (>\$10M)
- **FY27+ - COCOM Essential Power Upgrade -** Project will provide a new feeder to augment electrical distribution network and enable continued operations after power outage (>\$10M)



Future MILCON Projects

- **FY29+ - SOCCENT Operational Facility** - Constructs a 25K SF facility to correct existing space shortfalls, move staff out of off-base leases and on-base temp buildings, and meet needs of SOCCENT auth/funded staff growth
- **FY29+ - USSOCOM Global Messaging Facility** - New SecDef Directed Mission; constructs 100K SF facility to house up to 600 additional personnel
- **FY29+ - USCENTCOM Operational Facility** - Constructs 247SF facility and moves ~600 personnel currently in temporary facilities into permanent



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RESILIENCY INITIATIVES

- **Energy Resilience and Conservation Investment Program (ERCIP)**
 - FY20 – potential EMCS Project
 - FY21 – potential funding to move remaining overhead electrical distribution underground
 - FY23 – Energy Resilience: Transmission and Switching Stations (potential for FY22)
- **Energy Assurance Lease**
 - Partnership with TECO--working thru SAF OEA and AFCEC/CI
 - Natural gas electric generation system and battery energy storage system owned, operated, and maintained by TECO and installed on MAFB
- **Pursuing UESC opportunities**



COMMUNITY PLANNING INITIATIVES



- **Working with Office of Economic Adjustment for a Compatible Use Plan (CUP)**
- **CUP will supplement the 2006 Joint Land Use Study (JLUS) by addressing resilience and adaption, with a focus on how a changing climate has/will continue to impact MAFB**
 - **Incompatible development and climate vulnerability has been a concern of Wing Leadership since the last JLUS in 2006**
 - **Will assist City of Tampa in developing policies and strategies regarding development in this area**



COVID-19 Impacts

- EOC operational since March
- No additional funding from CARES Act yet
- Construction projects have continued as planned
- Platooning staff using a Bucs/Bolts schedule
- Teleworking is working better than anticipated
- Had to get creative with custodial contract
- Adjusting plans for Hurricane Response



Summary

- Dedicated Total Force Team that works together to meet mission needs
- Serve a broad portfolio supporting two Wings, USCENTCOM, USSOCOM, SOCCENT, MARCENT, JCSE and 28 other Mission Partners
- Currently working FY20/21 FSRM Program and current/future MILCON Program--funds are tight
- Looking at innovative ways to improve base resilience
- COVID-19 has impacted 6 CES...mission continues



Questions?