460th Civil Engineer Squadron

Buckley AFB
Project Update

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Base Civil Engineer, Commander
460 CES

Engineers Lead the Way!
Buckley AFB Overview

- Location = City of Aurora, Arapahoe County, CO
- Area = 3,283 Acres
  - Improved Grounds = 53 Acres
  - Semi-improved Grounds = 337 Acres
  - Unimproved Grounds = 2,771 Acres
- Plant Replacement Value = $2.1B
- Facilities = 937 / Buildings = 225
- Dormitories = 2 (380 rms: B28 236 rms/B205 144rms)
- Privatized Housing (Hunt) = 351 units (95+% occupancy)
- Runway = 11K feet / 201K SY
- Taxiways = 188K SY
- Pavement = 1.2M SY (248 Acres)
- Restricted Area Emergency Generators, 4 x 1 MWatts
  - Power Independence Resiliency = $37.8M SBIRS Operations Facility (SOF)
- Air Conditioning = 12.6K Tons
- Installation Development Plan, June 2013
  - 2/5 ADP’s in process of upgrade
Base Operating Support

Areas Maintained by Others:
- ADF-C (NRO)
- 140 ANG
- ARNG
- NOSC
- MDG
- Hunt
- Blue Marlin

Engineers Lead the Way!
Major tenants (ANG, ARNG, Navy, ADF-C) each have their own varying levels of BOS

- 460th Space Wing serves all tenants in some element of BOS
- BOS billets not fully funded by tenants – a total of 23 of the 194 CES positions are funded by NSA

460 CES provides all or some typical CE support to all tenants:

- Environmental Engineering: HAZMAT/HAZWASTE / Natural & Cultural Resource Management / Recycling / Permits
- Engineering: Facility Design / Construction Management / Energy Resiliency / Project Planning & Programming / Community Planning
- Operations: Utilities / Service Contracts / Snow and Ice Removal / RP MX
- Emergency Management: Natural-Manmade Disaster Recovery / CBRN Detection and Protection / EOC Operations
- Accompanied and Unaccompanied Housing
- Fire and Emergency Services: Flight line Crash Rescue / Structural Response / Medical Response (at Paramedic level) / Fire Training-Prevention
- **Awarded/Ongoing**
  - 15 FSRM/MILCON Projects valued @ ~$74M

- **FY20 to be awarded**
  - ~ 20 projects @ ~$20M
  - Some are centrally funded/others from Command/User

- **Annual Operations and Maintenance Budget** ~ $6M
• Total FY 20 Program: ~ $20M
  • Central Funding: 13 Projects
  • Construct Comm Duct Banks
  • Convert Warehouse to Visitor Center
  • Repair by Replace HVAC bldg. 730
  • Repair Power Plant Control Systems
  • Install Fire Hydrants
  • Repair by Pipes, Valves, and Pumps for Fuel Tank
  • Repair Facility Roofing, Cladding, Foundation

• Other Funding: Various Smaller Projects
• Includes Paving/HVAC/Paint/Carpet/Facility Systems
**Current MILCON**

- **FY18 SBIRS Operations Facility (SOF), ~$37M (Awarded)**
  - AFSPC’s #1 FY18 MILCON project
  - Awarded Dec 2018
  - Provides SBIRS MCS with its own backup generators)
    - Provides “power independence”
    - Current average load = 1.0 MW
  - Builds new @61K SF admin support facility: demo’s B429/431
    - Includes SCIF’d Ops Floor training simulator
    - B429 (built in 1974) roof deflects with heavy snow load (6 inch)
  - Construction start in Winter 19/20 w/2 year POP

- **FY19 UMMC (<$6M) Large Vehicle Inspection Point (ECP)**
  - Moves Commercial inspection point to 6th Ave
  - Meets AT/FP requirements
    - Mississippi Gate does not comply with AT/FP standards and represents a significant safety/security issue
    - Does not have adequate queuing capacity, debris cordon extends into off-base neighborhoods, inspections in full sight
  - Expect award project in Winter/Spring of 2019
NexGen Mission Control Center ($50-250M)
Power Resiliency – RA ($5-25M)
Basewide Electrical Infrastructure Resiliency ($25-100M)
Resilient Water Supply and Fire Protection ($25-100M)
NE Side Sanitary Sewer Water Infrastructure ($25-100M)
NE Side Natural Gas Infrastructure (Unk)
Consolidated Base Warehouse (Unk)
Joint Vehicle Maint and Wash Rack Facility (Unk)
Duct Lines on East Side (Unk)
CONCLUSION

Engineers Lead the Way!

Mess with the Bull  Get the Horns

Engineers Lead the Way!