Society of American Military Engineers

Ohio Army National Guard

Operational Update

3 December 2015
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Construction and Facilities Management Officer (CFMO)

James Penn
Building Construction Superintendent (FM)
St Mary’s Armory Constructed 1920
Army National Guard
Military Construction Funds (1981-2010)

OHIO NATIONAL GUARD READINESS CENTERS

Year

Total Readiness Centers

1987  79
1993  80
1999  72
2005  64
2008  52
2011  50
2025  38

MILCON
Total: 2001 - 2010
$220.34M

BRAC
Total: 1991 - 2000
$143.46M
(68%)

1,000 Pct Increase

Federal Share
$21.62M

State Share
$2.10M

Value To Ohio:
Saves $10M in Sustainment Costs

Always ready. Always there.
SHIFT!!!!

- HQ Department of Army Guidance
- "optimize space and reduce our Real Property Footprint"
- 1 MILCON project in 2020!

Shift from MILCON to Sustainment, Restoration and Modernization

Modernization – Greater focus on renewables and energy cost saving mechanisms.
Guidelines outlined by HQDA:

~ Reduce building energy intensity by 2.5% annually through 2025.
~ Ensure, at a minimum, the following percentages of total building electric energy is clean energy:
  - 10% in fiscal years 2016 and 2017.
  - 13% in fiscal years 2018 and 2019.
  - 16% in fiscal years 2020 and 2021.
  - 20% in fiscal years 2022 and 2023.
  - 25% by fiscal year 2025

~ Ensure, at a minimum, the following percentages of total building electric energy is renewable:
  - 10% in fiscal years 2016 and 2017.
  - 15% in fiscal years 2018 and 2019.
  - 20% in fiscal years 2020 and 2021.
  - 25% in fiscal years 2022 and 2023.
  - 30% by fiscal year 2025
SolarWall® 2-Stage - High Performance Solar Air Heating

View the record-breaking temperatures rises of 36-100 °F (20-55 °C) above ambient being delivered from recent SolarWall 2-Stage installations!

SolarWall® 2-Stage is the latest version of the SolarWall® technology and is more suited to solar space heating applications. It builds on the technological success of the original solar air heating system, generating substantial economic and environmental benefits.

SolarWall® 2-Stage has been configured to deliver a higher temperature rise – up to 36-100 °F (20-55 °C) above ambient temperature. It is also ideally suited for windy locations and roof-mount projects. [And as the wind speed increases, the energy output of the 2-stage system will continue to increase relative to the conventional SolarWall system.] It operates on the same premise as the original SolarWall® technology in that outside air is heated and drawn into an air cavity via tiny micro-perforations in the SolarWall collector. With the 2-Stage system, the air is then heated a second time (which boosts the temperature rise) as it passes through a second stage of the system. The solar heated air is then directed into the building’s ventilation system - or through a dedicated SolarWall fan & ducting system - where it is distributed throughout the building.

Up to 50%+ More Thermal Energy
Independent testing and field applications have shown that SolarWall 2-Stage will deliver up to 50%+ more energy than a conventional SolarWall system, with temperature rises over 100°F being achieved on a regular basis.
Hybrid Renewable options
James Penn
Building Construction Superintendent (FM)
STATE OF OHIO ADJUTANT GENERALS DEPARTMENT

OHIO ARMY NATIONAL GUARD
DIRECTORATE OF INSTALLATION MANAGEMENT
A/E SELECTION PROCESS
Background

• A/E selection process via State rules and Regulations.

• The Department has three options to obtain/contract for A&E services.
Option 1

• For projects with an estimated design fee of **less than $25,000**, the Department will submit the project specifications along with a request for response (bid) to a minimum of three (3) A&E firms. The Department will select the A&E firm with the lowest responsive, responsible bid (Technical cost proposal).
Option 2

• For projects with an estimated design fee **over $25,000**, the Department will solicit request for qualifications from various A&E firms (usually advertise on OFCC – Ohio Register website), evaluate/score their qualifications, interview top three firms, select one and negotiate a fee for their services.
Option 3

- Contract with the OHIO FACILITIES CONSTRUCTION COMMISSION OFFICE (OFCC), former State Architect’s Office (SAO), and use one of their pre-qualified Consultants.
General Notes

• The Department uses Federal funds and State Capital for our major renovation construction projects.

• Projects are generally approved and considered for funding after 1 October when the Federal Budget is approved for that fiscal year.
OPPORTUNITIES

• A/E design services for the Camp Ravenna Dining Facility project
• A/E design services for the Rickenbacker Readiness Center project.