Welcome to the Army Design & Construction Programs

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• Ray Alexander Jr., SES, Chief, Interagency & International Services, HQ USACE
SAME FY16 DoD and Federal Program Briefing:
USACE Military Programs

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Deliver innovative, resilient, and sustainable solutions to the Department of Defense and the Nation.

Military Construction
Army / Air Force

Overseas Contingency Operations (OCO)

Support to Combatant Commands

Installation Support

Environmental

Real Estate

Interagency and International

Energy and Sustainability
Globally Postured and Responsive

Physical Presence (43 Countries)

Northwestern Division (Portland)
North Atlantic Division (New York City)
South Atlantic Division (Atlanta)
Trans-Atlantic Division (Winchester, VA)
Pacific Ocean Division (Honolulu)
Military Programs (FY00-17)

Program ($Millions)

As of 4 Dec 14

Host Nation/FMS
Environmental
RDT&E
RE
OCO
ECIP (too small to show)
ARRA
Other
Engineering & Design (P&D)
Air Force Construction
DOD
Military Programs FY15-16 Workload

FY15 Military Programs - $17.8B ($000)
- Army Construction: 27%
- AF Construction: 16%
- Department of Defense: 15%
- Planning and Design: 11%
- Host Nation/Foreign Military Sales: 9%
- Real Estate: 4%
- Research and Development: 3%
- Environmental: 3%
- Overseas Contingency Operations (OMA): 2%
- Other: 5%
- Energy Conservation Investment Program: 0%
- ARRA (HAP): 0%
- IS (BOS/SRM): 0%

FY16 Military Programs - $13.4B ($000)
- Army Construction: 19%
- AF Construction: 16%
- Department of Defense: 14%
- Planning and Design: 6%
- Host Nation/Foreign Military Sales: 5%
- Real Estate: 4%
- Research and Development: 3%
- Environmental: 2%
- Overseas Contingency Operations (OMA): 1%
- Other: 19%
- Energy Conservation Investment Program: 6%
- ARRA (HAP): 4%
- IS (BOS/SRM): 3%
USACE Campaign Plan
Goal 1 – Support National Security

Deliver innovative, resilient, and sustainable solutions to DoD and the Nation.

Objective 1a:
Support Combatant Commands’ security activities, and efforts of other U.S. government agencies around the globe, to advance our Nation’s interests.

- Action 1a1: Achieve a Comprehensive Enterprise Behavior.
- Action 1a2: Engage and Integrate USACE Capabilities to achieve JIIM effects.
- Action 1a3: Deliver Responsive R&D, S&T, and Geospatial Solutions.
- Action 1a4: Establish and Sustain the Army Geospatial Enterprise.

Objective 1b:
Partner with Installation Management Communities at all echelons to deliver and maintain enduring installations and contingency basing.

- Action 1b1: Improve delivery of major construction w/ Life Cycle Analysis.
- Action 1b2: Develop USACE Capacity for Asset Management.
- Action 1b3: Transform Real Estate practices.

Objective 1c:
Support the Nation and the Army in achieving our energy security and sustainability goals.

- Action 1c1: Achieve Federal sustainability and energy goals and targets.
- Action 1c2: Support Army energy programs.
- Action 1c3: Successfully design and construct sustainable facilities.

Objective 1d:
Support the Engineer Regiment so it is designed, equipped, organized, manned, led, trained, and enabled by doctrine to meet Army and Joint Force needs.

- Action 1d1: Expand Regimental Talent Management.
- Action 1d2: Enhance USACE partnership and outreach.
- Action 1d3: Enhance Integration with Services and Interagency Community.

Objective 3d:
Strengthen Interagency Support

- Action 3d1: Engage to apply USACE capabilities to support interagency objectives
- Action 3d2: Achieve a Comprehensive Enterprise Behavior.
Enabling Mission Success through Principles-Based, Collaborative Initiatives

Outcomes:

- Creates efficiencies
- Maximizes outcomes
- Enables holistic solutions
- Strengthens partnerships
- Promotes stewardship of public resources
- Fosters knowledge and information sharing
Military Construction (MILCON) Initiatives

Projected FY15-17 Workload

Future Trends

- Decline in traditional MILCON and fundamental shift in makeup
- Re-introduction of sequestration creating program uncertainty
- $1B European Reassurance Initiative
- Anticipate FY16 funding to implement European Consolidation Initiative recommendations
- Increasing host nation funded construction requirements

Student Barracks, Fort Bragg

Fort Stewart Elementary School

SOF 96-Man Barracks at Hunter HAAF

Cadet Barracks, USMA
### Projected FY15-16 Workload

**7-YR O&M/BOS/SRM FUNDING TREND ($M)**

<table>
<thead>
<tr>
<th>Year</th>
<th>SRM</th>
<th>BOS</th>
<th>O&amp;M</th>
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<tbody>
<tr>
<td>FY2010</td>
<td>$7,500</td>
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<tr>
<td>FY2016</td>
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### Future Trends

- Facilities proponents continue to work capital investment strategies focused on modernization and re-purposing of existing facilities resulting in overall increase in SRM workload.
- Increasing requirement to assure facility cyber security.
- Continued emphasis on cost-effective energy security measures.
- Leveraging Chief of Engineer’s role as Army’s Engineer and USACE’s role as a DoD Construction Agent to identify complementary engineering roles, create synergies, and mitigate gaps within the Army’s engineering enterprise.

### Promoting public-private partnerships through Energy Savings Performance Contracting (ESPC) initiatives
Installation Management Community Initiatives

Sustainment Management System (SMS) - BUILDER

Asset management tool using facility condition assessments and comprehensive engineering data in an objective, efficient manner to inform future investment decisions and reduce risk.

Background:
- Recommended by National Academies of Science
- Assesses and predicts facility component condition (Roofs, HVAC, etc.)
- Uses scenario-based planning to inform prioritized investment strategies
- Mandated by OSD in Sep 2013 for DoD implementation by Sep 2018
- Working to integrate BUILDER with other systems/programs (GFEBS / Master Planning and Energy/Sustainability programs)

Master Planning

Enabling the development of sustainable, energy-efficient installation master plans IAW UFC 02-100-01 and USD(ATL) 2013 memo mandating compliance by 2018

USACE Responsibilities:
- Develop technical criteria and standards that meet planning, sustainability and energy efficiency mandates
- Proponent/Instructors for DoD Master Planning Institute and PROSPECT courses

Key Initiatives:
- Master planning training
- Leveraging Regional Master Planning Support Centers
- Developing DoD planning metrics
- Establishing USACE master planning product standards
- Planning for resiliency/ climate change
- Sustainability and Net Zero modeling
Cyber Security

USACE provides Industrial Control System (ICS) Cyber Security (CS) technical expertise throughout the enterprise to ensure the delivery of secure facilities to its military missions clients.

ICS CS Technical Center of Expertise in Huntsville:
- Established Jan 2015
- Provides ICS cybersecurity technical services for MILCON, SRM and O&M projects
- Assists HQUSACE with policy and guidance
- Expands ICS CS community knowledge
- Influences Army and OSD ICS CS policy

Energy

- Partnering with Energy offices across the Army to enable the achievement of Army Energy and Water Management Program outcomes including:
  - Implementing cost-effective, large-scale renewable energy projects on Army installations
  - Integrating energy and sustainability into Army plans, programs, policies, and regulations
  - Achieving NetZero goals
  - Utilizing private sector financing to reduce initial capital investment outlays
  - Serving as the Army’s Metering Program Manager
  - Collaborating with installations to support cost-effective acquisition and sale of reliable utilities services through the Commercial Utilities Program

Net Zero Installation Research

- Army Energy Conservation Program (ECIP)
  - FY14: 11 projects; ~$43M
  - FY15: 11 projects; ~$48M
  - FY16: 7 projects; ~$46M
  - Project Categories: renewable energy, energy efficiency, and water conservation

Modeling & Simulation
Building Materials Reuse & Recycling
Technology Demonstrations
Advanced Insulation Materials

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Enabling National Security

Engagement (132+ Countries)
Physical Presence (43 Countries)

33K civilians deployed; 11K from USACE
Interagency and International Community Initiatives

Support to Combatant Commands

Serving as a vital engineering enabler for the Army, Combatant Commands, and our interagency partners by delivering scalable technical and engineering solutions that address a dynamic and broad range of global and regional challenges.

Security Cooperation Roles

- Strategic partner
- Execution agent
- Engineer integrator
- Soft power integrator

Key Initiatives:

- Assisting strategic partners to address critical water security and climate change challenges
- Supporting partner Army Engineer transformation initiatives
- Building partner disaster preparedness and response capacity around the globe
- Sharing technical and engineering best practices and information through exchanges, consultations, and assistance
- Providing forward deployed and reachback engineering support for contingency and current operations

Security Assistance

Delivering engineering services to NATO and 32 countries across the globe through 199 active cases totaling $3.4B.

Countries with Existing Workload

USACE anticipates workload growth in the following countries:

- Brazil
- Bahrain
- Kuwait
- Qatar
- Saudi Arabia
- Romania
- India

DISAM Security Cooperation Industry Training Link:
### Support to Veterans Affairs

#### National Cemetery Administration
- Supporting NCA’s 10 yr capital plan (85 projects/$900M-$1B)
- 10 ongoing projects
- **PA Value:** $49.6M
- Includes gravesite expansion and cemetery improvements at National Memorial Cemetery of Arizona ($8.8M), Quantico National Cemetery ($2M) and Dallas-Forth Worth National Cemetery ($9.8M)
- Army Geospatial Center Support

#### Minor Construction and Non-Recurring Maintenance
- Supporting work at 74 Medical Centers
- **FY14 Execution:** $156M

#### Other Support
- Temporary power to VA hospitals
- Development of major construction program governance structure to manage performance and identify/mitigate issues
- Training on USACE Quality Management and construction management information system (RMS)
- VA Medical Center Aurora, CO

### Support to Department of Energy

#### FY14 Execution: $58.2M
#### FY15 Execution to Date: $23.9M

USACE supports over 10 organizations including the National Nuclear Security Administration (NNSA), Environmental Management (EM), and the Office of Acquisition and Program Management (APM) by providing the following services:

- Engineering, procurement and construction (EPC)
- Cost engineering
- Implementation of the asset management system BUILDER
- Environmental remediation and management
- Disaster preparedness and response support
Delivering Engineering Solutions

A-E Firms
5,000 Employees
Perform > 65% of Planning and Design

Critical Technical Resource

Construction Contractors
300,000 Employees (daily)
Perform 100% of Civil Works and Military Construction

33,000 Employees
Perform government functions