U.S. Army Engineering and Support Center, Huntsville

LTC William Burruss
Deputy Commander
USACE Vision

A GREAT engineering force of highly disciplined people working with our partners through disciplined thought and action to deliver innovative and sustainable solutions to the Nation's engineering challenges.

USACE Mission

Provide vital public engineering services in peace and war to strengthen our Nation's security, energize the economy, and reduce risks from disasters.

Huntsville Center Mission

The U.S. Army Engineering and Support Center serves the U.S. Forces, their Families and the Nation by providing specialized technical expertise, global engineering solutions, and cutting edge innovations through centrally managed programs in support of national interests.
Our Charter
ER 10-1-22

Huntsville Center has programmatic and functional boundaries in lieu of geographical boundaries. We execute programs and projects that:

- Are national or broad in scope
- Require integrated facilities or systems that cross geographical division boundaries
- Require commonality, standardization, multiple site adaption, or technology transfer
- Require a centralized management structure for effective control of program development, coordination and execution
- Require functions to be performed that are not normally accomplished by a HQUSACE organizational element
Historical Overview

- Huntsville Division was founded in 1967 to manage the design and construction of facilities needed for the nation’s Sentinel/Safeguard Ballistic Missile Defense System.
Historical Overview

- **1970s**: Huntsville Division transitioned to a diverse set of programs characterized by a need for centralized management, large scale procurement, and the development and application of sophisticated engineering criteria.

- **1980s**: Huntsville Division changed from a design and construction organization to a diversified center of expertise for engineering, design and procurement with 20 new programs assigned.

- **1990s**: Huntsville Division became the U.S. Army Engineering and Support Center and now has 40 programs and 10 centers of expertise assigned to support the Army and the nation.
Huntsville Center Footprint

Annual Program: $1.6B
- Installation Support $1,100M
- Engineering $88M
  (includes Medical CX of $25M)
- Chemical Demil $187M
- Ordnance Explosives $220M
- Environmental and Munitions CX $16M

Personnel: 862
- 741 – Huntsville, AL
- 23 – Alexandria, VA
- 53 – Omaha, NE
- 6 – Pueblo, CO
- 14 – Richmond, KY
- 16 – Afghanistan
- 9 – Various PMs forward and liaisons

Customers: Very diverse customer base which includes DOD and many Federal government agencies.
USACE Centers of Expertise

Mandatory Centers of Expertise
- Medical Facilities
- Army Ranges and Training Lands
- Electronic Security Systems
- Environmental and Munitions
- Utility Monitoring and Control Systems

Technical Centers of Expertise
- Energy Savings and Performance Contracting
- Heating, Ventilation and Air Conditioning
- DD Forms 1391/3086 Preparation/Validation
- Operation and Maintenance Engineering Enhancement
- Installation Support

Fort Belvoir Community Hospital, VA
Environmental and Munitions Programs

- Environmental and Munitions Center of Expertise (EM CX) provides:
  - Expert technical consultation for environmental, radioactive, and military munitions cleanups nationwide
  - Independent technical review
  - Quality assurance reviews
  - Technology transfer/lessons learned
  - Guidance document development
  - Participation on panels and advisory committees
  - Training development
  - Environmental compliance support
  - Green sustainability remediation support
  - USACE Civil Works sustainability reporting

A specially equipped helicopter searches for anomalies at Martha's Vineyard, Mass.

Workers preparing railcar for offsite shipments of radium contaminated soils and debris for the Shattuck Superfund Site, Denver, Colo.
Ordnance and Explosives Programs

- Military Munitions Design Center and Remedial Action Team
  - Investigation, design, and remediation of FUDS, ranges, and construction sites.
  - Technology Insertion/Development
  - Supporting 200 sites and managing execution of $107 million in contracts

- Chemical Warfare Design Center
  - Investigation and remediation of chemical weapons sites and weapons
  - Support to DA, DOD, State Department, and DTRA worldwide
  - Supporting RI/FS/RA at 10 sites and managing execution of $15 million in contracts

Vegetation mulcher will take down an 18" pine and reduce it to mulch in 1 min 15 seconds

Spring Valley Formerly Used Defense Site (FUDS) near Washington D.C.
Ordnance and Explosives Programs

- **OCO Support**
  - **Iraq (2003-2011)** – destroyed 400,000 tons of Iraqi munitions and tons of excess/unserviceable U.S. munitions
  - **Sather AB, Iraq** – Cleared 78 acres of land for transition to Dept of State control
  - **Mine clearance in Afghanistan**
    - 9 Afghan mobile mine clearance teams supporting base expansion countrywide
    - **Bagram AF** – Clearing Soviet-era mine fields for MILCON and base expansion

- **$2 billion Worldwide Remediation Services Contract**
Medical Programs

- Medical Facilities CX: Leadership responsibility for design acquisition strategy, design development and technical oversight during design and construction execution for medical aspects of the project.
  - Partnership with Project Delivery Teams
  - Subject Matter Experts for preparation and interpretation of medical unique standards, criteria, specifications and guidance
  - Liaison and coordination between USACE and military services and surgeon generals
  - Liaison with academia, code bodies, testing and standard setting jurisdictions, and professional associations
  - Manage $500 million A/E IDIQ

Magnitude of the Medical Program

- Collaboration with 19 individual districts
- Total program = $12.4 billion
  - 42 projects in active design
  - 33 projects in active construction
    - $10.394 billion active projects
  - 30 additional projects in POM 2017
    - $2 billion estimated value
Medical Programs

Huntsville Center Medical Support Team: One of three USACE teams that provide specialized support to Army MEDCOM facilities.

- Medical Repair and Renewal (MRR) Program: Executes design, repair, replacement, renovation, sustainment, restoration and modernization of medical facilities.
  - Customers include Army, Air Force, Navy and Veterans Administration
  - 100 design-build projects valued at $500 million

Nutrition Care, Fort Hood, Texas

Fort Sill, Okla., Vet Clinic
Medical Programs

- Integrated Modular Medical Support Systems (IMMSS): Provides systems furniture worldwide for Army MEDCOM
  - Blanket purchase agreements with $400 million capacity
  - 200 task orders at $25 million

- Operations and Maintenance Engineering Enhancement (OMEE): Provides contract services to operate facility infrastructure and maintain building systems
  - Customers include Army, Air Force, Navy and Veterans Administration
  - 40 hospitals at $85 million per year
  - Capacity Unrestricted/Restricted = $465 million

- Initial Outfitting and Transition (IO&T): New program that takes facility from construction complete to functional Soldier ready. Recently awarded $500 million IDIQ for Army MEDCOM
Installation Support Programs

- USACE Installation Support CX: Huntsville Center executes assigned ACSIM and IMCOM programs in partnership with Districts, DPWs and IMCOM.

  ▶ Facilities Reduction Program: Eliminates excess facilities
    - Regional MATOCs with $240 million in capacity
    - FY 11 budget = $30 million
    - FY 11 average cost = $6.80/SF
    - Average 70 percent landfill diversion

  ▶ Facilities Repair and Renewal: Fast track, efficient method for design/build renovations for all federal agencies
    - $500 million design-build MATOC and $15 million A/E services
    - 40 projects valued at $95 million
Installation Support Programs

▸ Access Control Points: Upgrade installation gates security equipment and facilities to meet new standards and assure consistency Army-wide.
  – Establishing three different contract suites for AE services, construction and maintenance.

▸ Army Centralized Furnishings Program: Provides program management for ACSIM/IMCOM MILCON, BRAC, SRM projects administrative and barracks furniture
  – Centralized approach results in clear standards and consistent quality; competitive procurements with 20 percent cost savings; and a standard process for on-time delivery
  – FY11: $241 million in awards with $19 million cost savings.
  – FY12: $160 million in awards expected

IB barrier being tested at Aberdeen Proving Ground, Md.

Warrior Transition Unit, Fort Campbell, Ky.
Installation Support Programs - Energy

- Utility Monitoring and Control Systems (UMCS) CX: Reviews all design and procurement packages; provides technical assistance, criteria, guidance and training; and executes projects for DOD and other federal agencies.
  - $900 million unrestricted/restricted MATOC
  - 420 projects at $639 million

- Army Metering: Installing 13,000 meters and global meter data management system to track, record and report energy consumption
Installation Support Programs - Energy

- Energy Engineering Analysis Program (EEAP): Analyzes energy use at installations and provides options for savings. Since 2006, 55 DoD and civil works surveys completed with 2,576 projects identified for $138 million per year in potential savings.
  - Combined with Installation Energy and Water strategy, a project list is produced to achieve annual and Net Zero energy goals

- Energy Conservation Investment Program (ECIP)
  - DD 1391 validations performed by Huntsville Center
  - New $240 million MATOC for ECIP execution
  - Implementing new Program Management Plan

- Energy Savings Performance Contracting (ESPC): Contractor provides capital and expertise to make infrastructure energy improvements to significantly reduce energy utilization and cost.
  - Current projects: Investment of $399.5 million with energy savings of $801 million
  - Prepared to support Presidential Directive for ESPCs
Installation Support Programs - Energy

- Large Scale Renewable Energy Production for Federal Installations Acquisition Approach
  - NAICS 221119, Other Electric Power Generation (solar, wind, geothermal, and bio-mass)
  - Ten-year ordering period for task order competition/award
  - Total estimated value of $7B for energy purchases under all PPA task orders having maximum 30-year terms
  - Two pools for MATOC selection- Unrestricted and SB restricted
  - Selection requirements include demonstrated capability to obtain financing – higher minimum amount for the Unrestricted; lower minimum amount for the SB restricted
  - Task order competition for projects will be set-aside for SB or competed unrestricted based on size of project in terms of MW
Installation Support Programs

- Electronic Security Systems (ESS) CX: Responsible for reviewing all design and test submittals for Army ESS. Also provides technical, engineering, acquisition, and fielding support to all federal agencies.
  - Currently 73 projects valued at $149 million
  - Awarded new ESS $900 million MATOC in FY11

- Range and Training Land Programs (RTLP) CX: Responsible for reviewing designs, conducting construction inspections and ensuring Army standards are met. Provides planning, MILCON programming and development of standard designs for Army automated ranges, and DD1391 preparation and validation.
Centers of Standardization

- Child and Family Services
  - Child Development Centers (Infants- 5 years)
  - Child Development Centers (School Age 6-10)
  - Youth Activity Centers
  - Army Community Service Centers
  - Soldier Family Support Centers

- Sports and Fitness Facilities
  - Physical Fitness Facilities
  - Outdoor Sports Facilities

- Medical Facilities

- Emergency Facilities
  - Fire Stations
  - Consolidated Fire, Safety and Security Facilities

- Training Ranges
  - Automated Record Fire Ranges
  - Combat Pistol/MP Qualification Courses
  - Modified Record Fire Ranges
  - Urban Assault Courses
  - Live Fire Shoothouses
  - Battle Command Training Centers
  - Training Support Centers
Chemical Demilitarization Program

- $8.5 billion program assigned in 1981 to destroy chemical weapons stockpile.

- Design and construction of 9 sites using incineration and chemical neutralization technology.

- U.S. stockpile = 31,501 tons of chemical agent. 90 percent destroyed as of Jan 2012

- Oversaw construction of Russian chemical demilitarization site.
## Proposed IDIQ Contracts

<table>
<thead>
<tr>
<th>Program</th>
<th>Contract Type</th>
<th>Value</th>
<th>Release Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy</td>
<td>Large Scale Renewable Energy Production for Federal Installations</td>
<td>$7 B</td>
<td>Q3 FY12</td>
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<td></td>
<td>Energy Design/Build Unrestricted</td>
<td>$600M</td>
<td>Q4 FY12</td>
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<tr>
<td>Utility Monitoring and Control Systems</td>
<td>UMCS IV</td>
<td>$4.5 B</td>
<td>Q4 FY14</td>
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<td>Access Control Points</td>
<td>ACP CONUS Design-Build Unrestricted Phase II</td>
<td>$250M</td>
<td>Q3 FY12</td>
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<td></td>
<td>ACP CONUS Design-Build Restricted Phase II</td>
<td>$200M</td>
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<tr>
<td>Facilities</td>
<td>Design- Build Facilities Repair and Renewal</td>
<td>$490M</td>
<td>Q4 FY12</td>
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<td>A-E Facilities Repair and Renewal</td>
<td>$15M</td>
<td>Q4 FY12</td>
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<tr>
<td>Integrated Medical Modular Support Systems and Initial Outfitting and Transition</td>
<td>IO&amp;T Services (Estimate)</td>
<td>$490 M</td>
<td>Q1 FY13</td>
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<tr>
<td></td>
<td>Medical Facilities Service Support</td>
<td>$245 M</td>
<td>Q1 FY13</td>
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<tr>
<td></td>
<td>IO&amp;T Dental Equipment BPA</td>
<td>$250 M</td>
<td>Q3-4 FY12</td>
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<tr>
<td></td>
<td>O&amp;M Services</td>
<td>$990 M</td>
<td>Q1-2 FY13</td>
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<tr>
<td>Medical Repair and Renewal</td>
<td>MRR Architect-Engineering Services</td>
<td>$25M</td>
<td>Q3 FY13</td>
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<tr>
<td>Ordnance and Explosives</td>
<td>Robotics Unrestricted</td>
<td>$40M</td>
<td>Q3 FY12</td>
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<td>International Contingency Life, Health &amp; Safety</td>
<td>$450M</td>
<td>Q1 FY13</td>
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<td>MEC Installation Services Rapid Response</td>
<td>$10M</td>
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<td>Engineering</td>
<td>Parametric Support Contract</td>
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<td>AFCS Engineering Services</td>
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<td>Defense Energy Support Center MATOC</td>
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<td>Medical Facilities Architect - Engineering Services</td>
<td>$249M</td>
<td>Q1 FY13</td>
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Questions?
www.hnd.usace.army.mil
# Planned Awards

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<tr>
<th>Program</th>
<th>Contract Type</th>
<th>Value</th>
<th>Award Date</th>
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</thead>
<tbody>
<tr>
<td>Access Control Points / Electronic Security Services/ Utility Monitoring and Control Systems</td>
<td>Operations and Maintenance Restricted and Unrestricted</td>
<td>$450 M</td>
<td>Q4 FY12</td>
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<tr>
<td>Army Audit Readiness Support</td>
<td>Blanket Purchase Agreement</td>
<td>$97.6 M</td>
<td>Q3 FY12</td>
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<tr>
<td>Access Control Points</td>
<td>ACP CONUS Design-Build Restricted and Unrestricted Phase II</td>
<td>$450 M</td>
<td>Q1 FY13</td>
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<tr>
<td>Ranges</td>
<td>SE Ranges MATOC - 8(a)</td>
<td>$64.5 M</td>
<td>Q3 FY12</td>
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<td></td>
<td>SW Ranges MATOC – HUB Zone</td>
<td>$245 M</td>
<td>Q4 FY12</td>
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<tr>
<td>Medical Repair and Renewal</td>
<td>Design-Build Restricted</td>
<td>$165 M</td>
<td>Q4 FY12</td>
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<td>Design-Build Unrestricted</td>
<td>$585 M</td>
<td>Q3 FY12</td>
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<tr>
<td>Ordnance and Explosives</td>
<td>Robotics</td>
<td>$40 M</td>
<td>Q4 FY12</td>
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