The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation.
HUNTSVILLE CENTER TIMELINE

1960
15 OCTOBER 1967 ESTABLISHED

1970
SEVEN NEW ASSIGNMENTS

1980
SUPPORT & DEVELOPMENT

1990
UMCS

2000
22 NOVEMBER 1995 DESIGNATION AS ENGINEERING AND SUPPORT CENTER

2010
INSTALLATION SUPPORT

MISSILE PROGRAMS
NASA TEST FACILITIES
CHEMICAL DEMILITIRIZATION
MEDICAL PROGRAMS
INTERNATIONAL OPERATIONS
ENERGY PROGRAMS
MEDICAL PORTFOLIO

Medical Facilities CX is responsible for design acquisition strategy, design development and technical oversight during design and construction medical aspects projects.

Operations and Maintenance Engineering Enhancement (OMEE) provides a simplified process to respond to the growing operation and maintenance (O&M) needs of DOD medical facilities, as well as other medical facility project support services.

Medical Repair and Renewal (MRR) designs, repairs, replaces, renovates, sustains, restores and modernizes medical facilities.

Medical Outfitting and Transition (MO&T) provides Medical Support Services, and Initial and Sustainment Outfitting and Transition.

Good news story!

- An $84 million MO&T project helped relocate the U.S. Army Research Institute of Infectious Diseases to a new facility.
FACILITIES SUPPORT AND BASE OPS PORTFOLIO

Good news stories!

- FRR recently awarded High Altitude Electromagnet Pulse (HEMP) assessment contracts at 6 sites in Europe for Air Force Global Strike Command.
- FRR Power restored for 86% of clients in Puerto Rico. Work awarded under RPMS BOA in the amount of $999 million.

Facilities Reduction Program (FRP) eliminates excess facilities.

Facilities Repair and Renewal (FRR) provides a fast, efficient method for design/build renovations for all federal agencies.
FACILITIES SUPPORT AND BASE OPS PORTFOLIO

**Fuels** - Provides maintenance, inspections, repairs and emergency response actions for Defense Logistics Agency petroleum facilities on military installations worldwide.

**Defense Fuel Supply Point OMES Program** – Provides Operation, Maintenance, Environmental, and Safety (OMES) plans as well as Plans and Public Awareness and Damage Prevention Program (PADPP) for compliance with DOT/OSHA regulations for transportation of oil hazardous Materials and/or liquids at various fuel facilities worldwide.

**Good news stories!**
- Executed a proof of concept of the Fuels Incident Response Team (FIRST) which provides post disaster fuel assessments and emergency repairs to DLA capitalized fuel sites.
- Fuels Team nominated to represent USACE for the David Packard Excellence in Acquisition Award.
Access Control Points (ACP) upgrades security equipment and facilities at installation gates to meet new standards and assure consistency Army-wide.

Good news story!
ACP awarded $2.4M in critical infrastructure requirements at Ft. Bragg, NC.

Base Operations (BASEOPS) provides a full spectrum of installation operations support to all facilities utilizing contracted manpower.

BASEOPS awarded first facilities support contract for the 88th RSC in the Kansas City Region.

BASEOPS awarded its first GSA contract in support of Fort Hood Facility Maintenance.
Centralized Furnishings Program provides program management, technical and procurement expertise for multiple Department of Defense Agencies world wide for Administrative Office, Barracks, Lodging and Educational furnishings.

Good news stories!
- In FY 18 Centralized Furnishings has been instrumental to DoD in outfitting numerous facilities in Europe ensuring US Forces are ready and responsive
Energy Portfolio Management
Pathway to Net Zero, Energy Security and Meeting Federal Mandates

Renewable Energy Goals
Investigation & Planning

Execution/Acquisition

Conservation & Reduction Measures

Investigation & Planning

Execution/Acquisition

Sustainment, Measurement & Verification

Behavioral Changes

PPA – Power Purchase Agreements
REM – Resource Efficiency Manager
CUP – Commercial Utilities Program
MDMS – Meter Data Management System
FRP – Facilities Reduction Program

UMCS – Utility Monitoring and Control Systems
ERCIP – Energy Resilience and Conservation Investment Program
UESC – Utility Energy Services Contracting
ESPC – Energy Savings Performance Contracting
EEAP – Energy Engineering Analysis Program
ENERGY PORTFOLIO

Energy Savings Performance Contracting (ESPC) The contractor provides capital and expertise to make infrastructure energy improvements to significantly reduce energy utilization and cost.

Power Purchase Agreements (PPA) supports the Army Office of Energy Initiatives (OEI), Air Force Office of Energy Assurance (OEA) and Army Garrison to execute third-party financing investment in renewable energy source power generation.

Utility Energy Services Contracting (UESC) is a contract authorized by 42 USC 8256 that allows serving utility to provide their Federal customers with energy and water efficiency improvements and demand-reduction services.

Good news stories!
• PPA worked with Redstone Arsenal and the Office of Energy Initiatives on a project to bring energy diversity and cost avoidance as well as energy resilience and security through solar power facilities.
Resource Efficiency Manager (REM) The REMs are SMEs assisting the energy managers identify energy savings and develop energy projects from the identified energy savings opportunities. The REM program provides REMs to the Army Reserve, AMC, IMCOM, Navy - Guam, USACE – Omaha. In FY17, the REM program awarded 10 contracts for $3.1M that provided 23 individual REMs at various locations (CONUS and OCONUS).

Energy Resilience & Conservations Investment Program (ERCIP) Validation
The ERCIP validation program provides planning and technical support by validating all ERCIP projects before they are submitted to DoD. CEHNC validates project definition, technical feasibility, appropriate technology, estimated energy savings and associated LCCA calculations.

Good news story!
- In FY17, The REMs identified approximately $25M in energy savings at a cost of only $3.1M.

Good news stories!
- Validated approx. 12 FY19 ERCIP Projects with an estimated value of $73M
- Initiated validation process improvements: early involvement from MSC/Districts, leveraging right stakeholders during process & at site visits, utilization of USACE Regional Centers of Expertise
ENERGY PORTFOLIO

Commercial Utilities Program (CUP)
Ensures the Army pays the lowest rates for reliable utility services through the following actions:
- Utility rate intervention
- Utility service assessments (@ garrisons)
- Utility contract negotiation support & rate analysis
- Utility privatization technical support
- Army demand response support
- Utility service officer training & support
- Assistant Deputy Army Power Procurement Officer action officer

Good news stories!
- In FY17 Return on Investment – 14:1 (utility rate intervention actions @ Picatinny Arsenal, JBLM, Forts Huachuca, Leavenworth, Riley and Knox)
- Supported Fort Knox in FY17 with utility contract negotiation, rate analysis and rate intervention yielding a total cost avoidance of $2.1M.
ENERGY PORTFOLIO

Energy Engineering Analysis Program (EEAP) Provides integrated services to meet customer’s objectives, identifying opportunities, plans, and appropriate solutions to achieve goals for mission readiness for Installation’s energy resiliency sustainability needs.

Good news stories!
• EEAP successfully completed 2 microgrid resiliency assessments at Fort Rucker and Anniston Army Depot. These assessments provided viable results and recommendations for the implementation of resilient solutions in support of energy security and resiliency for Army installations.
OPERATIONAL TECHNOLOGY PORTFOLIO

- **Electronic Security Systems (ESS) MCX** reviews all design and test submittals for Army ESS. Also provides technical, engineering, acquisition and fielding support to all federal agencies.

- **Utility Monitoring and Control Systems (UMCS) MCX** reviews all design and procurement packages; provides technical assistance, criteria, guidance and training; and executes projects for DOD and other federal agencies.

- **Army Metering** is installing 13,000 meters and a global meter data management system to track, record and report energy consumption.

- **Control System Cybersecurity MCX** provides engineering design and execution of compliant solutions to reduce and/or eliminate control system cybersecurity vulnerabilities.

**Good news story!**
ESS upgrading security systems at over 2000 National Guard locations and over 600 US Army Reserve locations.

Metering improves Meter Data Management System reporting process to increase speed in running reports, as well as increasing stability of the system.
OPERATIONAL TECHNOLOGY PORTFOLIO

• **USACE-IT** delivers value through Information Technology acquisition and project management for the USACE’s enterprise network and all peripherals.

• **High Performance Computing (HPC)** supports the DOD High Performance Computing Modernization Program through procurement of numerous HPC systems (supercomputers) with over 5 PetaFLOPS of computing capability and over 50 PetaBytes of mass storage archives.

• **Communication Infrastructure and Systems Support (CIS2)** delivers value through Information Technology acquisition, project management and financial management excellence.

• **Medical Communication Infrastructure and Systems Support (MCIS2)** supports the entire DOD medical community in the procurement of hardware, software and technical services.

Good news stories!
• Multiple USACE-IT projects helped USACE achieve 100% compliance with the DOD Windows 10 mandated deadline.
• HPC acquired two new supercomputers ($26.2M Total) for Army Research Laboratory.
ENVIRONMENTAL PORTFOLIO

Environmental and Munitions (EM CX) provides support to USACE Headquarters and offices worldwide on complex environmental and munitions issues.

- Defense and State Memorandum of Agreement (DSMOA)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
- Military Munitions Response Program
- Remediation System Evaluations (RSE)
- Long-term Monitoring Optimization (LTMO)
ENVIRONMENTAL PORTFOLIO

Military Munitions Design Center and Remedial Action Team
- Ordnance investigations, remedial designs, and clearances of FUDS, range support actions and construction sites.

Chemical Warfare Design Center
- Support to DA, DOD, State Department, and DTRA worldwide
- Investigation and remediation of chemical munitions

Global Operations
- Afghanistan – Landmine and range clearance, environmental support, Task Force Power
- Poland – MDA support
- Korea – Landmine clearance, Story Training Area

Ballistic Missile Defense (BMDS CX)
- Supports the Missile Defense Agency’s Ballistic Missile Defense System Program.
WHY COME TO HUNTSVILLE?

- Professional Engineers – 115
- Project Management Professionals – 51
- Contracting Officers holding warrants $500 million or higher – 18
- PhD – 20
- Registered Architects – 17
- Registered Interior Designers – 24
- LEED Certified – 10
- Acquisition Workforce – 660
  (Level 1: 60  Level 2: 385 Level 3: 215)
- Certified Energy Managers – 11
- CyberSecurity: 6

HUNTSVILLE CENTER MISSION:
The U.S. Army Engineering and Support Center, Huntsville provides specialized technical expertise, global engineering solutions, and cutting edge innovations through centrally managed programs in support of national interests.

HUNTSVILLE CENTER VISION:
A certified, professional workforce with an expeditionary mindset capable of pioneering solutions to unique, complex and high-risk missions in strengthened partnership with the USACE enterprise, key DOD stakeholders and our strategic allies.
Customers: Very diverse customer base which includes DOD and many Federal government agencies.
Questions?
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