

U.S. ARMY CORPS OF ENGINEERS



U.S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE

A Programmatic
and Organizational
Overview of an
Innovative Center



HNC OVERVIEW2021

DELIVERING INNOVATION



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
Engineer Regulation 10-1-22
27 November 2018

ESTABLISHMENT

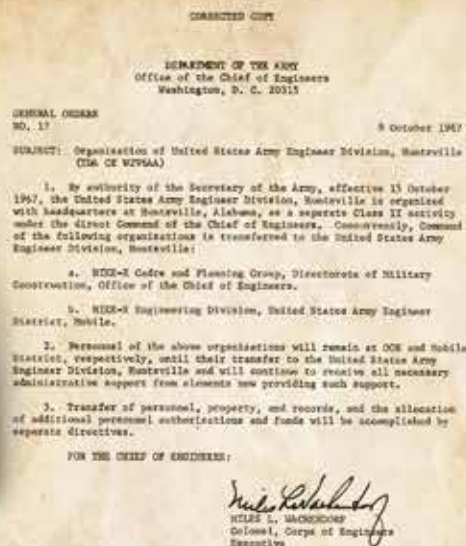
Huntsville Division was established 15 October 1967 by the Office of the Chief of Engineers General Order No. 17, dated 9 October 1967. The Huntsville Division was designated as the U.S. Army Engineering and Support Center, Huntsville (CEHNC) on 22 November 1995 by Permanent Order Number 53-1.

CHARTER

Huntsville Center is a Subordinate Command of the U.S. Army Corps of Engineers (USACE) with command oversight by the Deputy Commanding General for Military and International Operations and programmatic oversight from the Director of Military Programs.

MISSION

Huntsville Center serves as a USACE enterprise capability for special assignments and in technically complex fields, for development of new technical or functional capabilities, for technology transfer from research and development to application, and for advising and promulgating establishment of capability across the broader USACE enterprise for emergent technologies and systems. Huntsville Center executes continuing missions as specifically assigned or designated by HQ USACE or in direct support of other USACE elements. The Center is authorized to contract for assigned programs and for support to other USACE elements. These capabilities provide HQ/USACE with a core capability for programs that do not fit clearly into a geographic region or functional category.



UNIQUE TO THE U.S. ARMY CORPS OF ENGINEERS

Huntsville Center provides innovative engineering solutions to complex, global missions. Our team of professionals engineer adaptive, specialized solutions across a broad spectrum of global enterprise covering five main lines of effort: *Energy, Operational Technology, Environmental, Medical, and Base Operations and Facilities*. Our portfolios comprise more than **40** program areas, as well as nine mandatory and five technical centers of expertise, and 17 centers of standardization.

Through partnership with Department of Defense agencies, private industry and global stakeholders, we deliver leading edge engineering solutions in support of national interests around the globe.

FY20

\$2.4B

In fiscal 2020, Huntsville Center awarded more than 5,000 contract actions totaling more than \$2.4 billion in obligations for its stakeholders. More than 40 percent of the \$2.4 billion obligations were small business awards. That number pushed the Center over the \$6 billion mark in obligations awarded to U.S. small businesses over the last decade.



OUR PORTFOLIOS

5 Lines of Effort

MEDICAL
BASEOPS and FACILITIES
ENERGY
OPERATIONAL TECHNOLOGY
ENVIRONMENTAL

40+ Programs

9 MANDATORY CENTERS OF EXPERTISE
5 TECHNICAL CENTERS OF EXPERTISE
17 CENTERS OF STANDARDIZATION

More than 4,000 projects ongoing globally

* NO Civil Works, NO Military Construction

Specializing in projects which:

- Are national or broad in scope
- Require integrated facilities or systems that cross geographical division boundaries
- Require commonality, standardization, multiple site adaptation, 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 HQ/USACE organizational element or that require unique, specialized or expert technical competencies
- Are missions directed by HQ USACE in support of Army or DoD level activities

OUR LEADERSHIP



**ACTING DEPUTY
COMMANDER**
Mr. Bill Craven

COMMANDER
Col Marvin Griffin, P.E.

PROGRAMS DIRECTOR
Albert "Chip" Marin

OUR PROFESSIONALS

Our greatest strength is **our people**; the intelligent, adaptable and professional workforce delivering vital public and military engineering solutions and services to the nation and its partners.

Our workforce of professional, highly skilled, technical experts is committed to providing innovative engineering solutions to unique, complex, global missions to meet the needs of our stakeholders and the Nation.

More than 1,000 employees in 3 Locations-
Huntsville, Alabama; Omaha, Nebraska; Alexandria, Virginia

- | | |
|---------------------------------------|---|
| • 115 Professional Engineers | • 24 Registered Interior Designers |
| • 51 Project Management Professionals | • 730 Acquisition Workforce Professionals |
| • 20 PhDs | • 11 Certified Energy Managers |
| • 17 Registered Architects | • 6 Cyber Security Professionals |
| • 10 LEED Certified Professionals | |



HUNTSVILLE CENTER

ACHIEVE THE VISION

USACE achieves the vision by engineering solutions for the Nation's toughest challenges while serving as a reliable federal option, and setting the professional standard with continuous innovation. Huntsville Center engineers solutions for the Corps' toughest challenges through cutting-edge approaches to contracting, program management and custom-designed solutions for evolving technological and cyber security needs.

STRENGTHEN THE FOUNDATION

USACE strengthens the foundation by building resilient people, teams, systems and processes to drive world-class performance. Huntsville Center is a vital member of the USACE team, providing, and often creating, unique capabilities structured within specialized teams tackling increasingly complex challenges.

DELIVER THE PROGRAM

USACE delivers vital engineering solutions, in collaboration with its partners, to secure our Nation, energize our economy and reduce risk from disaster. Huntsville Center is a strategic component of delivering the USACE program, encompassing specialized programmatic and functional competencies across all USACE geographic boundaries. Huntsville Center provides expert engineering and technical services; extensive matrix program management resources; environmental, ordnance and explosives, and energy expertise; and extensive contract capabilities. Our program managers have groundbreaking program experience, and our Contracting Directorate has proven strengths developing large and complex acquisitions. Huntsville Center functions to a large extent like a private sector U.S. business with an international scope. Customers contract for the Center's innovative engineering services and products. In return, Center employees commit to provide quality services and products in the most cost-efficient way possible.





EVOLUTION OF AN ADAPTIVE ORGANIZATION



*"Most of what we do is cutting-edge technology. **We are creating solutions for challenges that may not have existed before.** That's what we do."*



MANDATORY CENTERS OF EXPERTISE

- Medical Facility Design (ER 1110-345-721)
- Range and Training Lands (ER 210-3-2)
- Electronic Security Systems (ER 1110-1-8162)
- Utility Monitoring & Control Systems (ER 1110-1-8163)
- Environmental and Munitions (ER 10-1-50)
- Facilities Explosives Safety (ER 1110-1-8169)
- Ballistic Missile Defense (ER 1110-2-8163)
- Control System Cybersecurity
- Military Munitions Design Center (ER 1110-1-8153)

9



TECHNICAL CENTERS OF EXPERTISE

- DD Forms 1391/3086 Preparation/Validation
- Facility Systems Safety (FASS)
- Operations & Maintenance Engineering Enhancements (OMEE)
- Heating, Ventilation and Air Conditioning (HVAC)
- Energy Savings and Performance Contracting (ESPC); Third-Party Financing (ESPC, PPA, UESC)

5

CENTERS OF STANDARDIZATION

- Army Community Service Center (ACSC)
- Battle Command Training Center (BCTC)
- Child Development Center: Infant/Toddlers (0-5 CDC)
- Child Development Center: School-Age (6-10 CDC)
- Consolidated Fire, Safety and Security Facility (FSS)
- Soldier Family Support Center (SFSC)
- Fire Station (FS)
- Outdoor Sports Facility (OSF)
- Physical Fitness Facility (PFF)
- Youth Activity Center (YAC)
- Training Support Center (TSC)
- Urban Assault Course (UAC)
- Automated Record Fire Range (ARF)
- Combat Pistol/Military Police Qualification Course (CP/MPQC)
- Modified Record Fire Range (MRF)
- Basic 10M-25M Firing Range (Zero)
- Live Fire Shoot House (LFSH)

17





ISPM

INSTALLATION SUPPORT & PROGRAMS MANAGEMENT



ISPM partners with USACE Major Subordinate Commands, Districts, Laboratories, Centers, Installation Directorates of Public Works and other government agencies to **provide life-cycle worldwide support** in providing maintenance, repair, operation, and upgrade services for their facilities and infrastructure. **Our support** is provided through the execution of **more than 30 programs** that encompass the technical, engineering, contracting and program management requirements of a variety of mission areas.

Our programs are executed in accordance with the **Project Delivery Business Process** in conjunction with the Project Management Community of Practice and focus primarily on Sustainment, Restoration and Modernization projects and programs.

Since June 2007, **ISPM** has been designated the U.S. Army Corps of Engineers' **Installation Support Technical Center of Expertise** (IS-CX). We provide quality engineering and design services in areas such as electronic security/intrusion detection systems, utility monitoring and control systems, and ranges and training lands management. We also provide innovative services in third party financing of energy solutions, base/facility operations, maintenance, repair and renewal of medical and non-medical facilities, furniture and furnishings and operational technology solutions for installations/facilities across the Department of Defense.

EN

ENGINEERING



The **Engineering Directorate** consists of four divisions that provide technical support to programs within the Huntsville Center as well as throughout the USACE Enterprise.

- The **Medical Facilities Mandatory Center of Expertise** provides subject matter expertise for new construction, additions and alterations of hospitals, medical centers, health and dental clinics, veterinary facilities, support facilities, and biological and chemical defense research laboratories.
- The **Civil Structures Division** provides technical review and expertise in geosciences, site development, environmental, structural, architectural and interior design.
- The **Mechanical Electrical Division** contains the mechanical and electrical engineering expertise as well as branches supporting the Electronic Security and Utility Monitoring and Control programs.
- The **Systems Cost Division** provides support to Architect-Engineer contracts, construction and operations and maintenance programs, cost engineering, management of several automated systems for cost and construction management and control system cybersecurity expertise.

GROWTH



*"Huntsville Center has grown exponentially over the past half a century...
...as the threat changes, our technology changes commensurate with that threat."*

EMCX

ENVIRONMENTAL &
MUNITIONS CENTER
OF EXPERTISE



The **EM CX**, as part of **Huntsville Center**, serves the U.S. Army Corps of Engineers and others by providing high quality engineering and scientific support to environmental remediation, munitions response and compliance programs around the world.

The **EM CX** supports the USACE Headquarters and offices worldwide on complex environmental and munitions issues through independent technical reviews, quality assurance reviews, munitions safety submission reviews, discipline-specific technical support, guidance development, participation on multi-agency panels and advisory committees, development and instruction of PROSPECT and informal training, and the evaluation of and recommendations on innovative technologies. The EM CX also provides environmental management assistance on special studies and analyses.

The **responsibilities of an MCX** are to maintain state-of-the-art technical expertise in the assigned specialty; and provide technical assistance and specific services to HQ USACE, all other USACE commands, and other organizations per the mission and function statements.

OE

ORDNANCE &
EXPLOSIVES



OE is made up of the Conventional OE Design Center, the Chemical Warfare Materiel Design Center, the Ballistic Missile Defense Center of Expertise, and Global Operations. Programs and projects include: Execution of Comprehensive Environmental Response, Compensation and Liability Act and Resource Conservation and Recovery Act actions for Formerly Used Defense sites, Base Realignment and Closure sites, range clearance and maintenance, robotics, construction support, etc.

USACE is the lead for planned environmental response actions and other activities that may involve Chemical Warfare Materiel. The **CWM Design Center** is the only organization authorized to execute any phase of a planned CWM response or to conduct the mandatory pre-operational surveys within the DOD.

OE Global Operations supports the Army, DOD, Combatant Commands, USACE Divisions/Districts, and other federal agencies, in OCONUS or contingency locations with ordnance and explosives surveys, and clearance in support of range clearance operations or construction (including MILCON); munitions disposal/destruction; footprint reduction, and environmental support; and low voltage electrical safety through an international ordnance and environmental MATOC that is responsive to contingency requirements.

The **Ballistic Missile Mandatory Center of Expertise** provides technical expertise to the Missile Defense Agency and serves as the mandatory center of expertise for Ballistic Missile Defense Systems projects to ensure standardization of design where applicable; to maintain technical expertise; to leverage technical knowledge; and to assure consistency and efficiency in delivery of BMDS facilities and infrastructure.

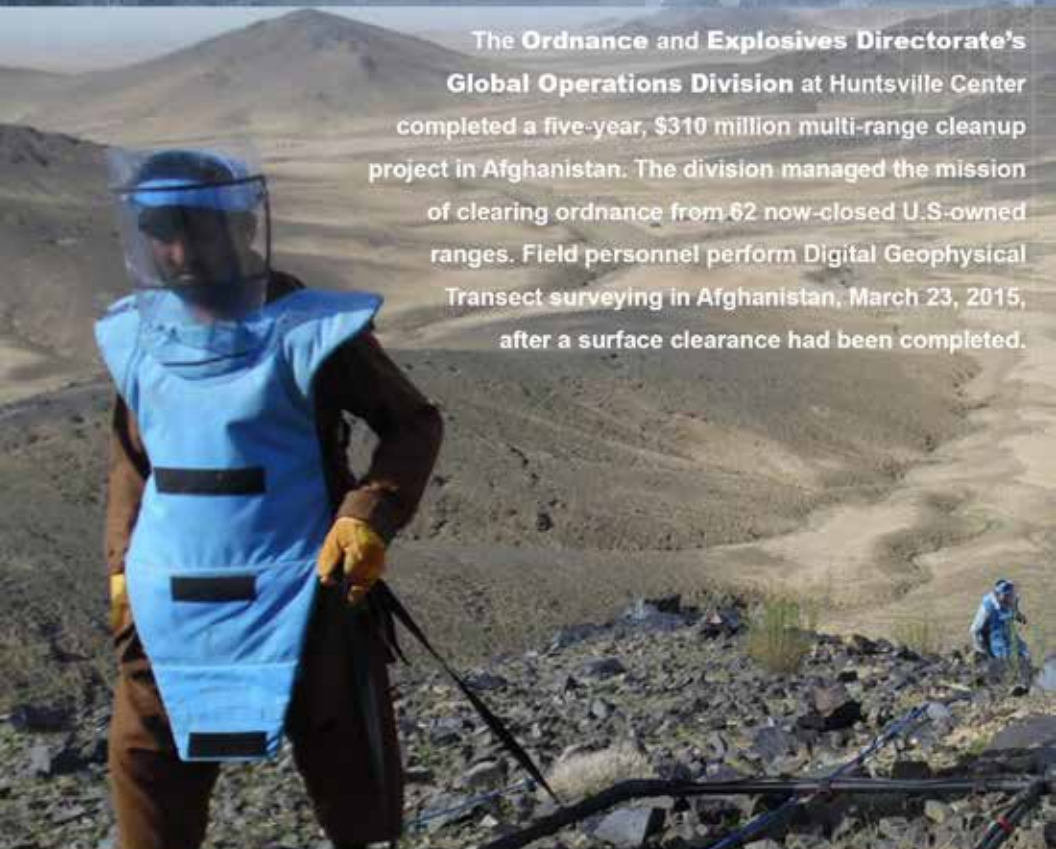
*“Revolutionizing
has been at the heart*

*of the Huntsville Center
mission from the beginning.*

*And it will continue to be
for many years to come.”*

INNOVATION





The **Ordnance and Explosives Directorate's Global Operations Division** at Huntsville Center completed a five-year, \$310 million multi-range cleanup project in Afghanistan. The division managed the mission of clearing ordnance from 62 now-closed U.S.-owned ranges. Field personnel perform Digital Geophysical Transect surveying in Afghanistan, March 23, 2015, after a surface clearance had been completed.



Find us online:
www.hnc.usace.army.mil

SINCE 1967