



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

U.S. Department of Energy Environmental Management Consolidated Business Center (EMCBC)



Overview

Melody Bell, Deputy Director

March 9, 2023

EMCBC Overview

VISION: *Be a service Center of Excellence for safe, cost-effective, and successful execution of EM's mission.*

MISSION: Deliver integrated core business and technical services using EMCBC's diverse workforce to ensure the safe, cost-efficient, and timely completion of the EM mission.

VALUES

- **People** are our most important asset
- Exceptional **Service**
- **Safety** at all times

Fast Facts

Location: Cincinnati, OH

Number of Employees: 221

Director: Jack Zimmerman

Deputy Director: Melody Bell

Associate Deputy Director: Sasha Robertson

Number of EMCBC Small Sites: 8

FY23 Budget : \$7.2M (Non-labor)

The "Swiss" Army Knife of EM

Established in 2004, the EMCBC is an integrated services center which executes core business and technical services for all EM Small Sites and provides additional services to the entire EM Complex

- Provides EM Small Sites with the business and technical support needed to efficiently and cost-effectively execute their mission without them having to retain on-site staff
- Provides consistent contracting services throughout the EM Complex
- Small Sites Field Operations report to HQ through EMCBC



**JW Peck Federal Bldg.,
Cincinnati, OH**

“Our challenge is to preserve our Small Site flexibility in a system dominated by Large Site constraints.”

Mission Portfolio



What You See
During Cleanup
Missions

D&D
Procurements

What
Capabilities Are
Actually Needed

Asset Management (Real & Personal Property)
Acquisition / Contracting
Financial Management

Legal Services

Small Business Management Support for EM Complex

Contractor Human Resource Management

Information Resource Management

Cost, Schedule, Risk Estimating and Analysis

Resource Management (HR)

Project Management
Technical Support (ESH&QA, Emergency Management, Security, Transportation, Classification Office)

Records Management Services

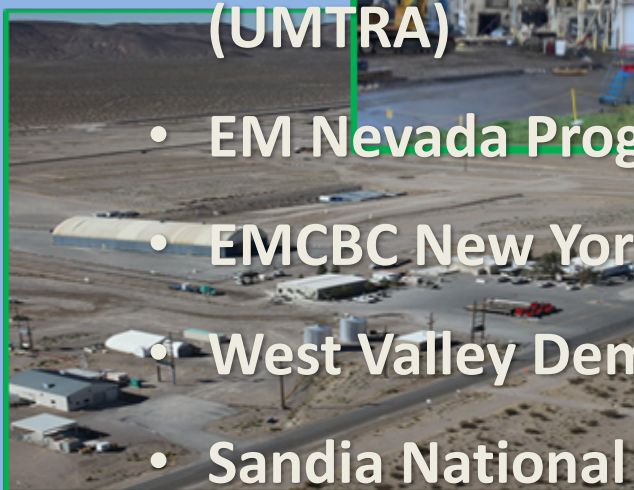
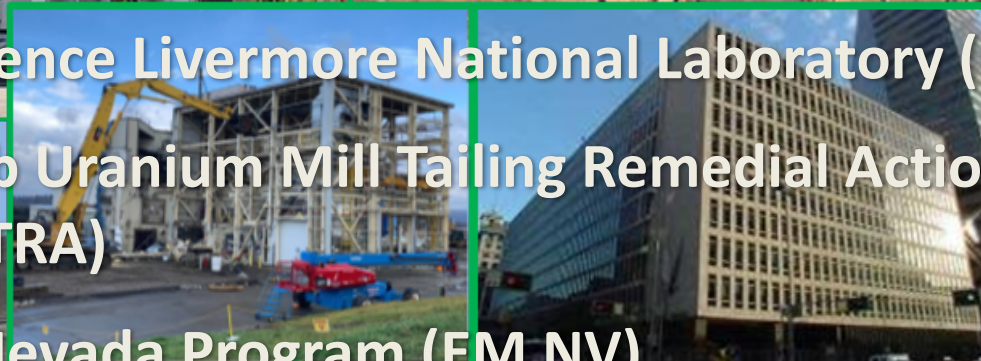
Cyber Security

Small Site Project Management

- Asset Management (Real & Personal Property)
- Acquisition/Contracting
- Small Business Management Support for EM Complex
- Contractor Human Resource Management
- Cost, Schedule, Risk Estimating and Analysis
- Financial Management
- Information Resource Management
- Legal Services
- Project Management
- Technical Support (ESH&QA, Emergency, Security, Transportation, Classification Office)
- Records Management Services
- Resource Management (HR)
- Small Site Project Management

Small Site Project Management

- Brookhaven National Laboratory (BNL)
- Energy Technology Engineering Center (ETEC)
- Lawrence Berkeley National Laboratory (LBNL)
- Lawrence Livermore National Laboratory (LLNL)
- Moab Uranium Mill Tailing Remedial Action (UMTRA)
- EM Nevada Program (EM NV)
- EMCBC New York Project Support Office
- West Valley Demonstration Project (WVDP)
- Sandia National Laboratory (SNL)



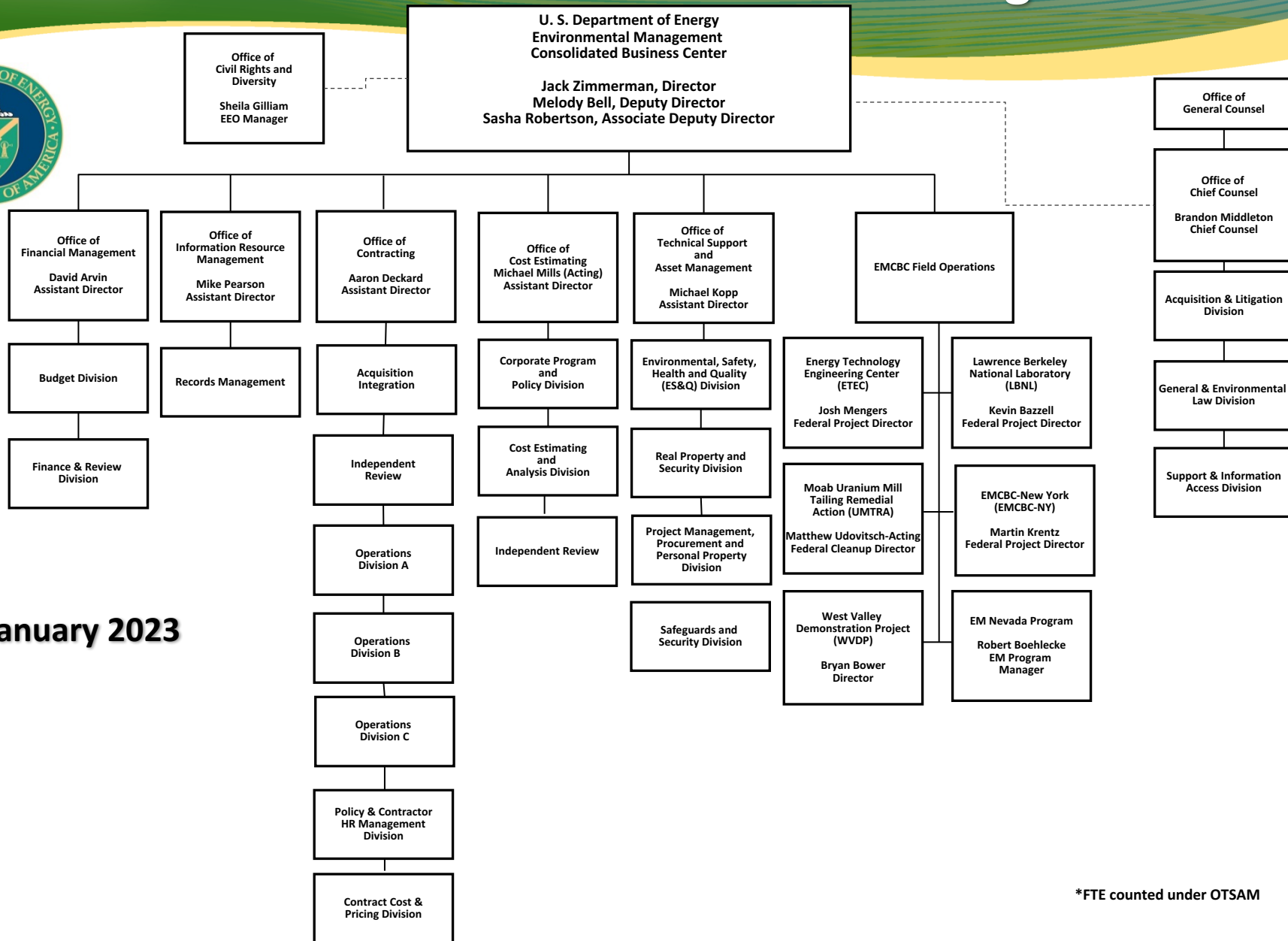
EMCBC Sites & Supported Sites

EMCBC Sites



Supported Sites





January 2023

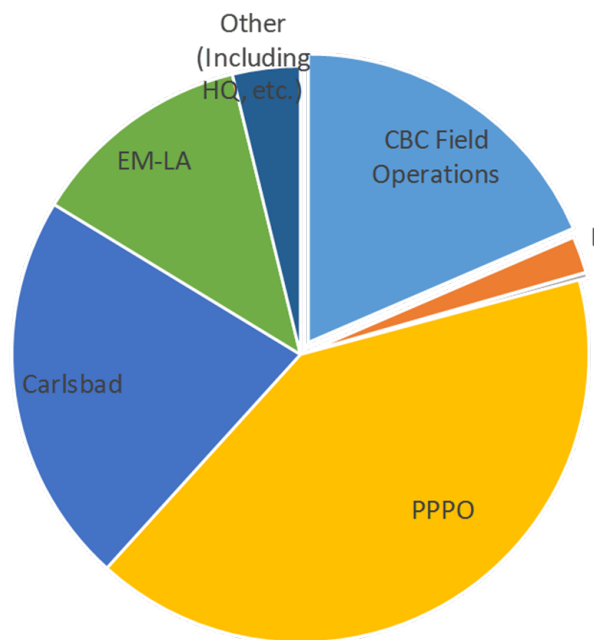
*FTE counted under OTSAM

Mission: Develop and execute innovative business strategies and cost-effective Contracting solutions to enable the EM Mission.

Functions Performed

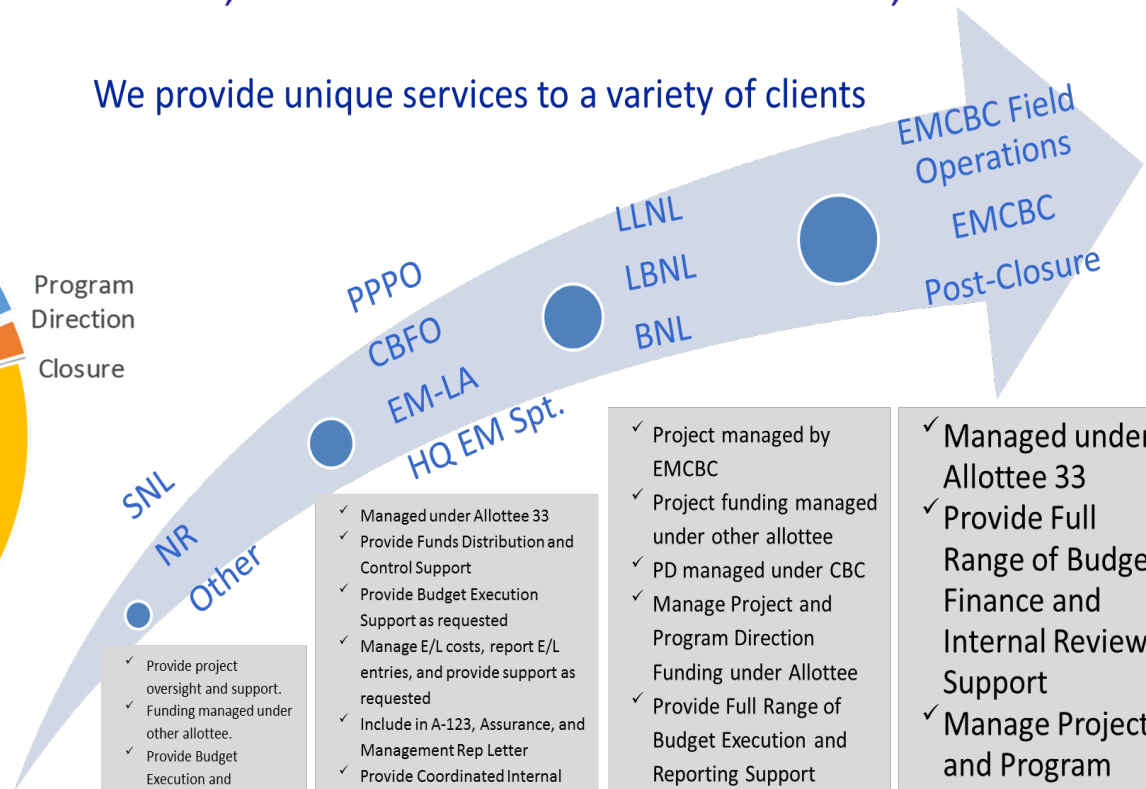
- Contract award and administration (including financial assistance)
- Contracting policies and administrative support
- Administration of the contractor human resources management activities
- Cost and pricing support
- Leads all major EM Source Selections(pre-award responsibility for all major EM acquisitions over \$25M)
- Contractor Purchasing System Reviews
- Financial assistance support for EMCBC, EM HQ, and EM sites
- End State Contracting Model implementation and support (Step 1/Step 2)
- Acquisition Portal/Policy Corner
- Contract closeouts
- Continuous process improvement
- Acquisition Corps and EM Career Acquisition Program (ECAP)

Mission: Provide expert assistance in financial matters, provide direction, planning, and oversight for budget formulation and execution, financial management, the management control program, internal financial controls, financial reviews and evaluations, and audit liaison.



Over \$1.7B Profile in FY23

We provide unique services to a variety of clients



- ✓ Provide project oversight and support.
- ✓ Funding managed under other allottee.
- ✓ Provide Budget Execution and Reporting Support for Project Funding
- ✓ Provide other support as requested.

- ✓ Managed under Allottee 33
- ✓ Provide Funds Distribution and Control Support
- ✓ Provide Budget Execution Support as requested
- ✓ Manage E/L costs, report E/L entries, and provide support as requested
- ✓ Include in A-123, Assurance, and Management Rep Letter
- ✓ Provide Coordinated Internal Review Support
- ✓ Sites have financial management staff providing analytical support

- ✓ Project managed by EMCBC
- ✓ Project funding managed under other allottee
- ✓ PD managed under CBC
- ✓ Manage Project and Program Direction Funding under Allottee
- ✓ Provide Full Range of Budget Execution and Reporting Support
- ✓ Provide ancillary support to accounting office on E/L, A-123, etc.

- ✓ Managed under Allottee 33
- ✓ Provide Full Range of Budget, Finance and Internal Review Support
- ✓ Manage Project and Program Direction Funding

Mission: Develop, implement and maintain EM's Corporate Cost Quality Program, leading the development and management of cost and schedule databases and providing tools and subject matter expertise to improve the quality and consistency of cost estimating and analysis to the EM Cost Estimating Community of Practice.

Functions Performed

- Develop and provide Cost, Schedule and Risk estimating and analysis subject matter expertise to support EM Acquisitions
- Develop and provide Cost, Schedule and Risk estimating and analysis subject matter expertise to support EM Projects and Programs
- Develop independent cost and schedule estimates, and risk analysis in support of the EM Cleanup Mission
- Manage the for the EM Cost Quality Program and the EMCBC Cost Estimating Center of Excellence
- Administer the EM historical cost capture database or Environmental Cost Analysis System (ECAS)

Office of Technical Support & Asset Management (OTSAM)

Mission: Provide quality, timely, and cost-effective Oversight/Assessment, Assist Visits, Engineering, Health and Safety, Regulatory Compliance, Quality Assurance, Asset Management, and Safeguards/Security services to the EMCBC, EMCBC Field Sites, and EMCBC Service Level Agreement Sites.

Functions Performed

- Real Estate Support
- Property Administration
- Fleet Management/Transportation Support
- Safeguards and Security Services
- Classification Services
- Procurement Support
- Project Management Support
- Safety Oversight and Support
- Quality Oversight and Support
- Safety Conscious Work Environment (SCWE)
- Waste Management Support
- Emergency Management/COOP Oversight Support
- NEPA Compliance
- High Level Waste (HLW)/UNF Support
- Radiological Protection
- DOECAP Audit Support
- Environmental oversight

Office of Information Resource Management (OIRM)

Mission: To provide Information Technology and Records Management Services to the organization and our client sites in alignment with their missions.

Functions Performed

- Desktop and mobile computing, networking, remote access, application and software management (as needed)
- Executive Order 14028 - Improving the Nation's Cyber Security
- Cyber Security Oversight & Accreditation for Multiple Contractor Systems
- EM wide Source Evaluation Board Support
- Oversight and Assessments for Federal and Contractor Records Management Programs
- Develop electronic Records Management strategies to meet future needs
- Records Management Field Officer

Mission: Provides legal resources to address issues related to EM operations and to divestiture activities for Site Closure, Long-term Stewardship and Legacy Management and represents DOE's best interests in litigation arising from any clean up and closure operations, as well as in legal proceedings and in negotiations with parties that include federal and state regulators, corporate entities and other stakeholder interests

The OCC's legal practice areas include:

Administrative
Ethics
Government Contracts
Litigation
Native American
Property

Appropriations
FOIA/Privacy Act
Information Access
Litigation Management
Pensions/CHRM
Public Utilities

Environmental
General Law
Labor Relations
Natural Resources
Personnel
Water Rights

EMCBC OCC on-site attorneys: Carlsbad, NM; Lexington, KY; Los Alamos, NM; Lakewood, CO; and West Valley, NY

Site Overview:

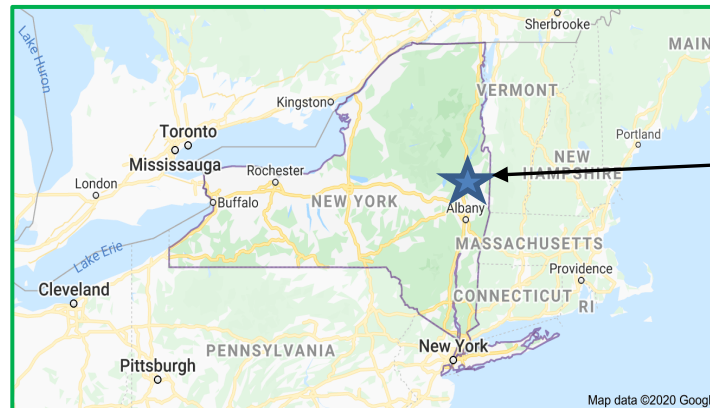
- Separations Process Research Unit (SPRU) Site located at the Knolls Atomic Power Laboratory in NYS.
- An inactive pilot plant used to research and develop chemical processes to separate plutonium from other radioactive material.
- During operations, two buildings were contaminated and more than 25 acres of land where waste containers were managed.

EMCBC-NY Fast Facts

Location: 2401 River Road in Niskayuna, NY
Number of Employees: 28 (2 Federal; 26 Contractors)
Manager: Martin Krentz
FY23 Budget Request: \$15.3M
Major Contractors: North Wind



**SPRU Upper-Level Area
after Restoration**



Size: The SPRU Site covers 30 acres.
Geography: The SPRU Site sits on the rolling hills on the Mohawk River approximately 330 feet above sea level.
Landowner: Department of Energy, Naval Reactors

Site Overview:

- The West Valley Demonstration Project (WVDP) was authorized through federal legislation.
- The WVDP Act of 1980 authorized the U. S. Department of Energy (DOE) to take control of approximately 200 acres of New York State-owned land to conduct a high-level radioactive waste management demonstration project at the Western New York Nuclear Service Center (WNYNSC).
- The site is the location of the only commercial reprocessing plant of nuclear fuel in the United States.



A 2015 site aerial photo of the 200-acre West Valley Demonstration Project located in West Valley, New York

WVDP Fast Facts

Number of Employees: 393 (14 Federal; 379 Prime & Subcontractors)
Manager: Bryan Bower
Type of Cleanup Work: Nuclear Facility Demolition
FY23 Budget Request: \$94.3M
Major Contractors: CH2M HILL BWXT West Valley, LLC

Size: WNYNSC is 3,300 acres. WVDP is 200 acres.

Geography: The Project lies on New York State's Allegheny Plateau at an elevation of approximately 1,450 feet above mean sea level. The underlying geology includes a sequence of glacial sediments above shale bedrock. The Project is drained by three small streams and is divided by a stream valley into two general areas: the north plateau and the south plateau.

Landowner: New York State

Site Overview:

- Relocating mill tailings and other contaminated materials from former uranium-ore processing facility in Moab, UT to an engineered disposal cell near Crescent Junction, UT.
- The Moab site is approximately 3 miles northwest of the city of Moab on the bank of the Colorado River.
- The Project's Crescent Junction disposal cell is located about 30 miles north. Material is shipped there by train four times a week.
- DOE has safely relocated more than 11 million of the estimated 16 million tons.

Moab Fast Facts

Number of Employees: 138 (2 Federal; 136 Contractors)

Manager: Matthew Udovitsch

FY23 Budget Request: \$67M

Major Contractors: North Wind, S&K Logistics Services



LEFT: *The Crescent Junction Site in 2018, looking north.*

ABOVE: *The Moab site in 2018, looking southeast towards the Colorado River and the city of Moab.*

Size: Moab is 480 acres. Crescent Junction is 1,436 acres.

Geography: Sandstone cliffs border Moab on the west. The Colorado River forms the southeastern boundary. Salt beds of the Paradox Formation and brine lie underneath the site. The Crescent Junction site is bordered by sandstone-topped shale cliffs. The disposal cell floor sits on weathered Mancos shale.

Landowner: Department of Energy

Site Overview:

- Located 65 miles northwest of Las Vegas, Nevada, the NNSS is a vast, unique and diverse research, evaluation and development complex that has a variety of missions and is managed by NNSA.
- EM NV's mission consists of waste management at the NNSS and environmental restoration on the NNSS and federal land impacted by historical DOE activities.
- Restoration scope assesses and performs corrective actions at approximately 900 former underground test locations, approximately 100 surface or near-surface soil contamination locations, and more than 1,000 industrial-type sites on and around the NNSS.
- Waste management scope supports DOE cleanup and activities at sites across the U.S. involved in historical nuclear research, development, and testing, and ongoing national security and science missions.

EM NV Fast Facts

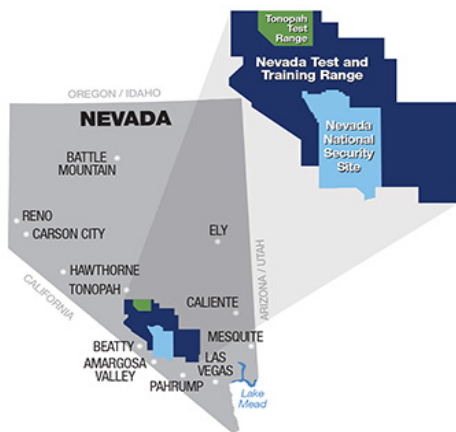
Number of Employees: 139 (13 Federal; 126 EPS Contractors)

Manager: Rob Boehlecke

Type of Cleanup Work: Soils, Groundwater, Industrial-Type

FY23 Budget Request: \$62.65M

Major Contractors: Navarro Research and Engineering (EPS)



Subsidence craters resulting from historic underground nuclear testing mar the landscape at the NNSS

Size: NNSS occupies approximately 1,360 square miles.

Geography: The NNSS is big, secure, and remote, and features an arid climate with deep groundwater (800+ ft).

Landowner: The Bureau of Land Management for all portions of the NNSS except the Radioactive Waste Management Complex (RWMC). The 740-acres comprising the RWMC is owned by DOE via land-order withdrawal.

Landlord: The NNSS is managed by NNSA

Site Overview:

- Located on Kirtland Air Force Base, adjacent to Albuquerque, New Mexico.
- The Sandia National Laboratories-New Mexico Environmental Restoration (ER) Operations Project scope includes the remediation of inactive waste disposal and release sites.
- These sites have known releases of hazardous, radioactive and mixed waste.
- The Sandia ER Operations scope includes the characterization and remediation of three plumes of contaminated groundwater.

SNL Fast Facts

Location: Kirtland AFB, ABQ., NM

Manager: EM FPD is Bill Wilborn

Number of Employees: 6 (1 Federal, 5 Contractors)

Type of Cleanup Work:

Characterization/Monitoring

FY23 Budget Request: \$4.0M

Major Contractors: National Technology & Engineering Solutions of Sandia



Sandia National Laboratories, located on Kirtland Air Force Base, Albuquerque, NM.

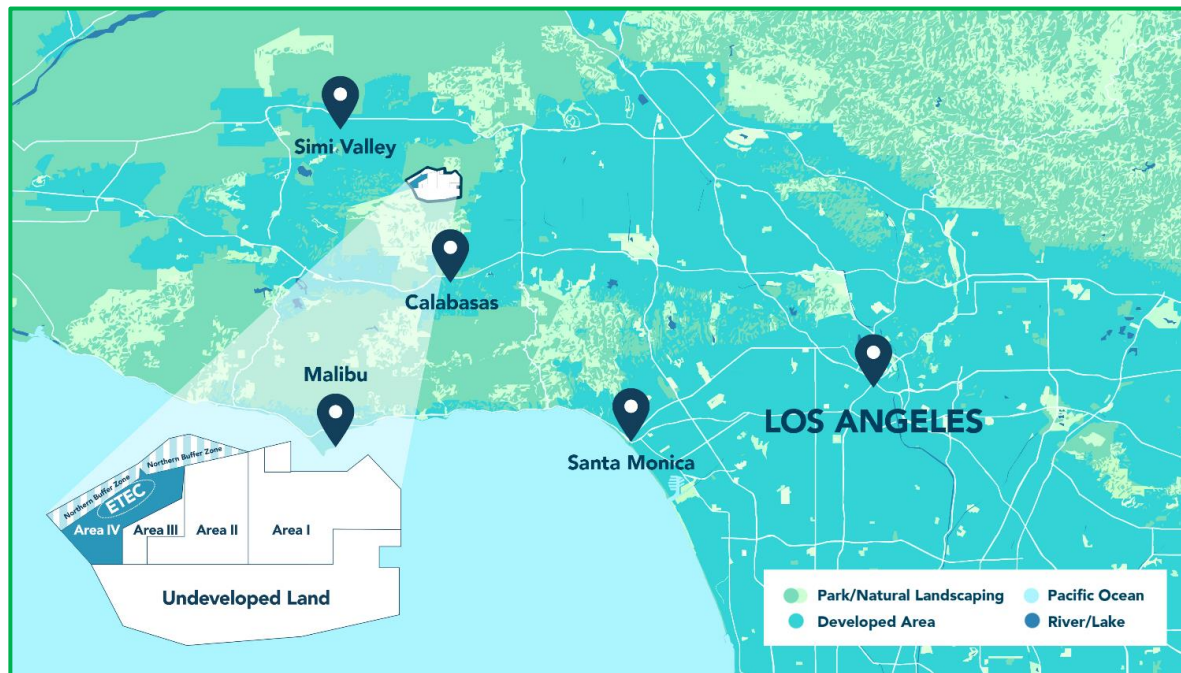
Size: The 3 GW contamination plumes make up approximately 375 acres.

Geography: Within the Manzanita Mtns., and 10-15 miles west of there in high desert terrain.

Landowner: National Nuclear Security Administration

Site Overview:

- ETEC is part of The Santa Susana Field Laboratory (SSFL) site, located in eastern Ventura County, California and close to Simi Valley and western San Fernando Valley.
- SSFL is in the Los Angeles metropolitan area, with downtown LA approximately 29 miles to the southeast.
- The site is comprised of four discrete operational areas with two adjacent undeveloped properties. ETEC is located in Area IV.



ETEC Fast Facts

Location: 4100 Guardian St., 160, Simi Valley, CA 93063

Number of Employees: 29 (1 Federal; 28 Contractors)

Manager: Josh Mengers

Type of Cleanup Work: Soil, Groundwater, Building Demo

FY23 Budget: \$26.41M

Major Contractors: North Wind
CDM Smith

Size: SSFL is 2,849 acres. Area IV is 290 acres, and ETEC is approximately 90 acres.

Geography: ETEC sits on hilly, rocky terrain with soil of weathered bedrock and alluvium. The site is between 1,880 feet and 2,150 feet above sea level and relatively flat. Several geological faults cross the site.

Landowner: The Boeing Company

Site Overview:

- EM is conducting cleanup work on Office of Science owned contaminated excess facilities at Lawrence Berkeley National Laboratory (LBNL).
- The LBNL is a multi-program research facility leased to the Department of Energy (DOE) by the University of California (UC) and managed by the Office of Science (SC).
- The site is located in Alameda County close to the city of Berkeley California.



LBNL Map:
-Bayview – Shown as Red Box
Old Town – Shown as Green Box



*Old Town Cleanup Progress: May 2014
and Feb 2020*

LBNL Fast Facts

Location: 1 Cyclotron Road Berkeley CA. 94720

Number of Employees: 21 (1 Federal, 20 Contractors (Varies by project))

Manager: Kevin Bazzell

Type of Cleanup Work: Building Demolition and associated soil remediation

FY23 Budget Request: \$15.0M

Major Contractors: University of California

Size: LBNL is 202 acres in the hills above the UC Berkeley Campus.

Geography: LBNL is on the hillside directly above the University of California at Berkeley campus overlooking San Francisco Bay. The terrain is very steep and was terraced to maximize placement of all buildings. All buildings have slab foundations, with some of the bottom-level-floors' back walls doubling as retaining walls. The site is next to the Hayward fault zone.

Landowner: University of California

Site Overview:

- EM is conducting decommissioning and demolition (D&D) work on NNSA-owned high-risk contaminated excess facilities at Lawrence Livermore National Laboratory (LLNL).
- LLNL consists of two sites—an urban site in Livermore, California, referred to as the “Livermore Site,” and a rural test site, referred to as “Site 300,” near Tracy, California.
- The Livermore Site, LLNL’s general research site, is within the eastern limits of Livermore, a city with a population of about 90,000 in Alameda County.
- The EM work involves demolition of excess facilities the Livermore Site and groundwater remediation at Site 300.

LLNL Fast Facts

Location: 7000 East Ave, Livermore, CA 94550

Number of Employees: 26 (1 Federal (EM); 1 Fed (NNSA for Site 300); 25 Contractors (Varies))

Manager: Kevin Bazzell (EM); Ariel Donnally (NNSA Site 300)

Type of Cleanup Work: Building demolition and associated soil remediation

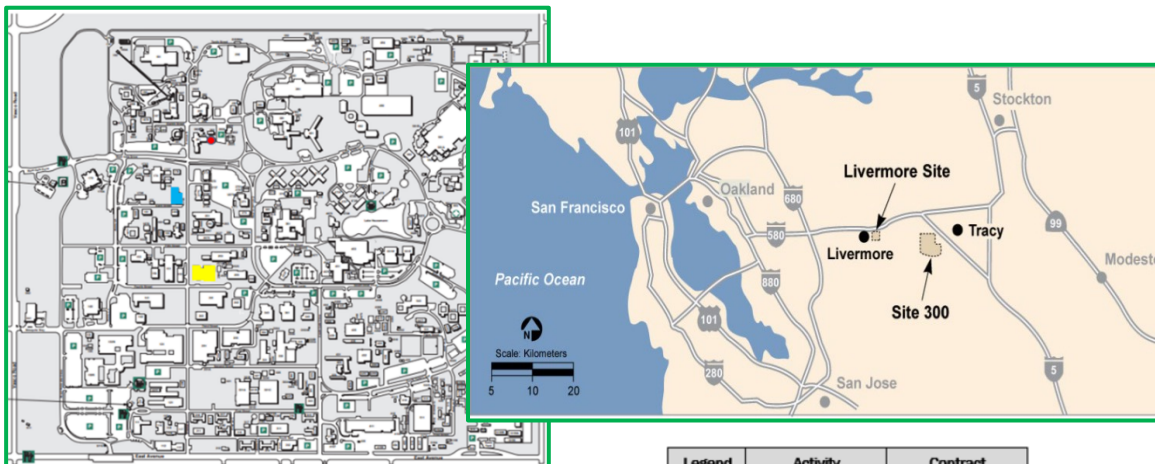
FY23 Budget Request: \$35M

Major Contractors: Lawrence Livermore National Security, LLC; USACE; North Wind

Size: The Livermore Site occupies 1.3 mi, including the land that serves as a buffer zone along its north and west perimeters. Each D&D project will have its own set of boundaries.

Geography: The Livermore site is located in the southeastern portion of the Livermore Valley, a topographic and structural depression oriented east-west within the Diablo Range of the California Coast Range Province.

Landowner: DOE-National Nuclear Security Administration



Maps show location of Livermore Site within the San Francisco Bay Area and the first three High Risk Excess Facilities to be addressed by DOE-EM

Legend	Activity	Contract
●	Building 280 reactor removal	USACE IAA
■	Building 175 Demolition	LLNS (NNSA M&O)
■	Building 251 Demolition to Slab	

Conclusion/Questions