



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

Office of Environmental Management (EM) Business Opportunities Forum

January 14, 2021

Norbert Doyle
Deputy Assistant Secretary
for Acquisition and Project Management
DOE Office of Environmental Management



- ❖ **A Vital and Important Mission**
- ❖ **EM Locations**
- ❖ **About Us: DOE Organization**
- ❖ **About Us: EM Organization**
- ❖ **EM's History**
- ❖ **Six Primary Mission Areas**
- ❖ **Process Update**
- ❖ **End State Contract Model**
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- ❖ **Major EM Contracts Summary**
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- ❖ **Current Major Acquisitions**
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A Vital and Important Mission

EM Mission: To complete the safe cleanup of the environmental legacy brought about from decades of nuclear weapons development and government-sponsored nuclear energy research. EM's first priority is to ensure the safety and health of the public and EM's workforce while continuing to protect the environment.



Over **700,000 tons** of depleted uranium produced as a by-product of enriching uranium to weapons grade

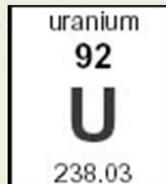


Over **5,000 facilities** contaminated as a result of activities such as reactor operations and uranium enrichment (which produce fissile material for nuclear weapons)

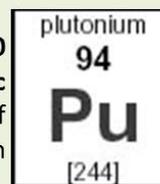


Millions of cubic meters of soil and **billions of gallons of groundwater** contaminated by environmental releases of radioactive and hazardous materials

Over **1,000 metric tons** of weapons-grade uranium



Over **100 metric tons** of plutonium

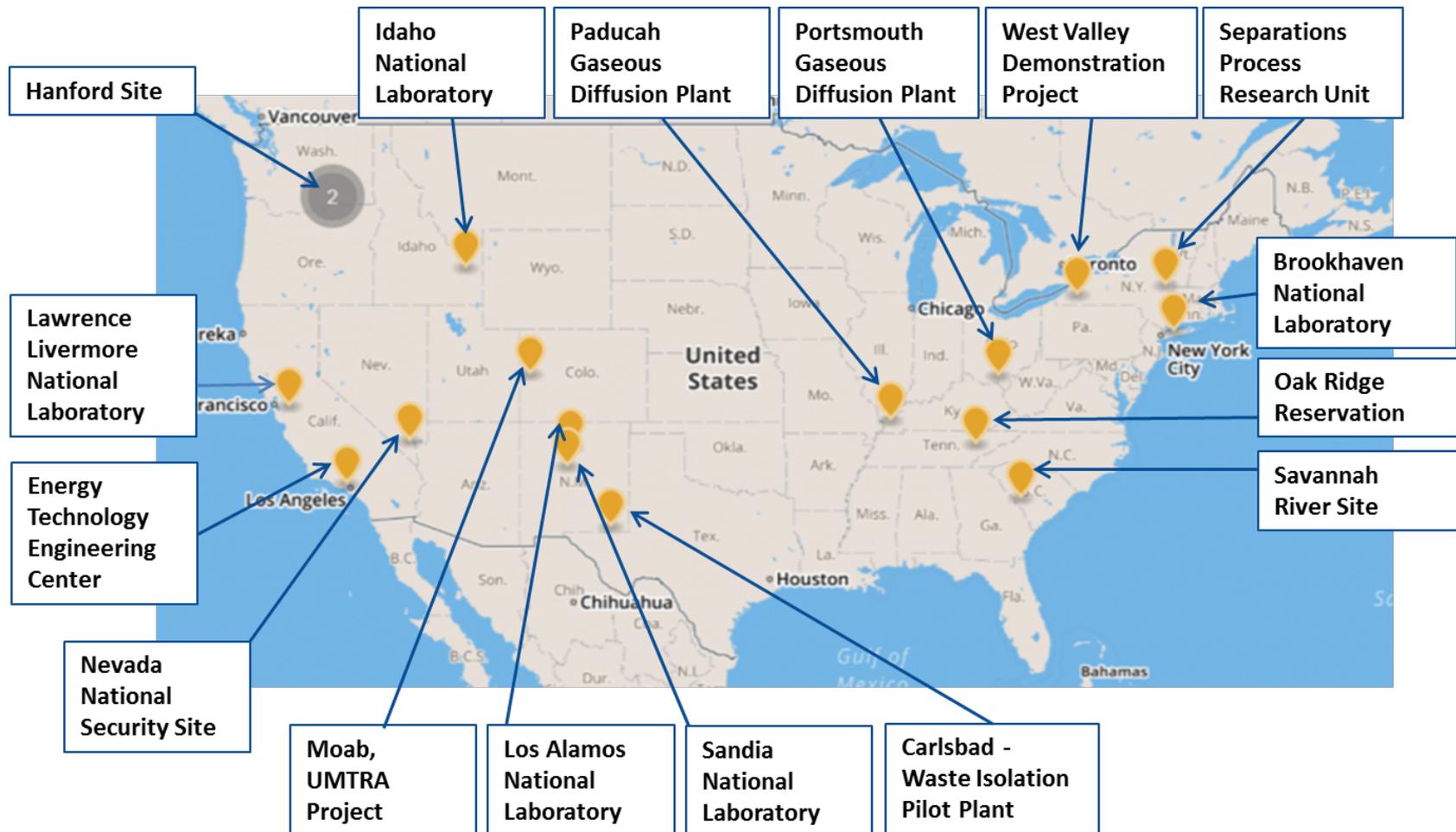


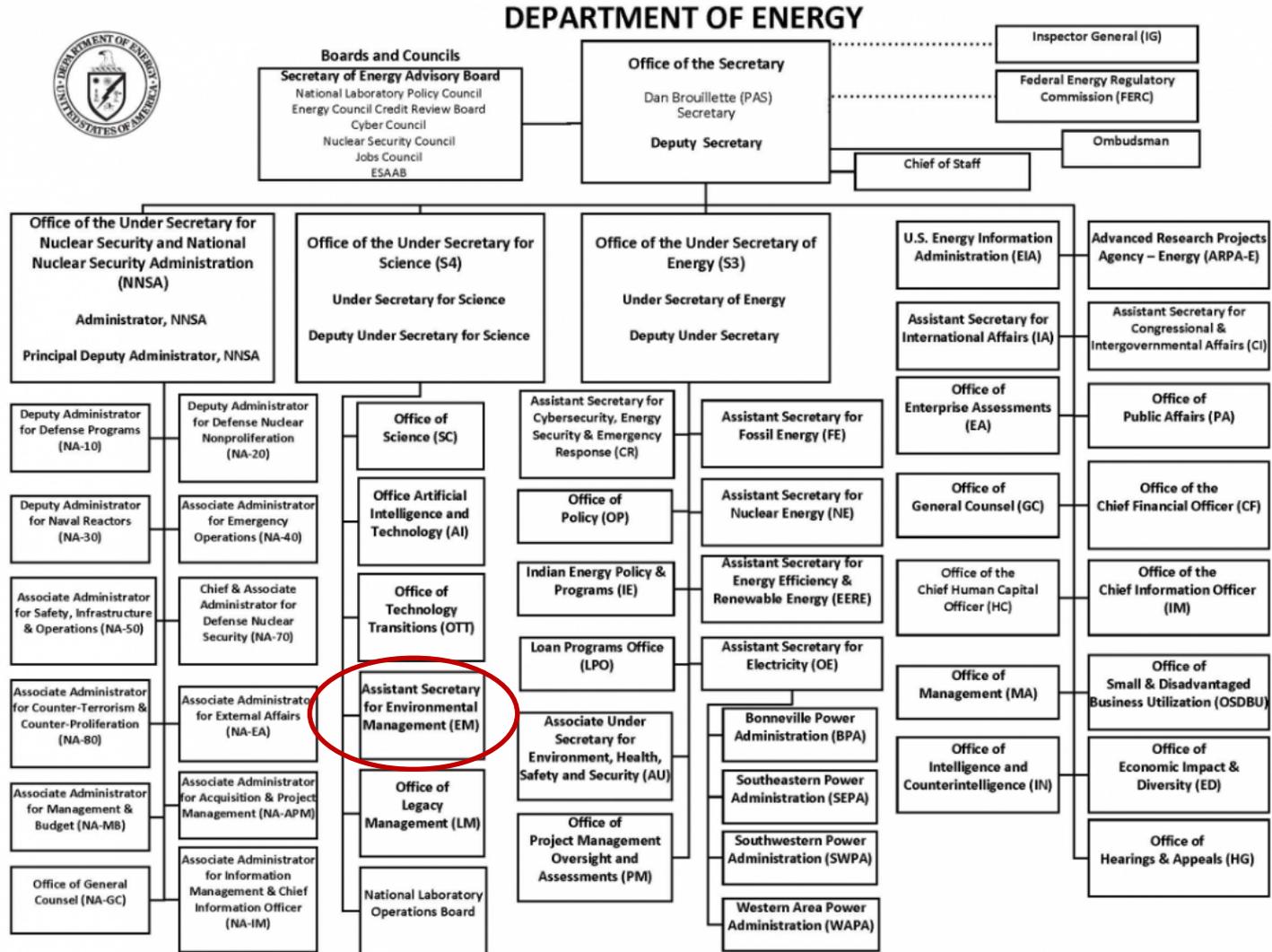
Tens of thousands of nuclear warheads



Over **90 million gallons** of liquid waste produced as a by-product of the separation of plutonium and uranium from used nuclear fuel rods

As the largest environmental cleanup program in the world, EM has been charged with the responsibility of cleaning up 107 sites across the country. The map below shows the remaining 16 active EM sites where cleanup work is currently ongoing.



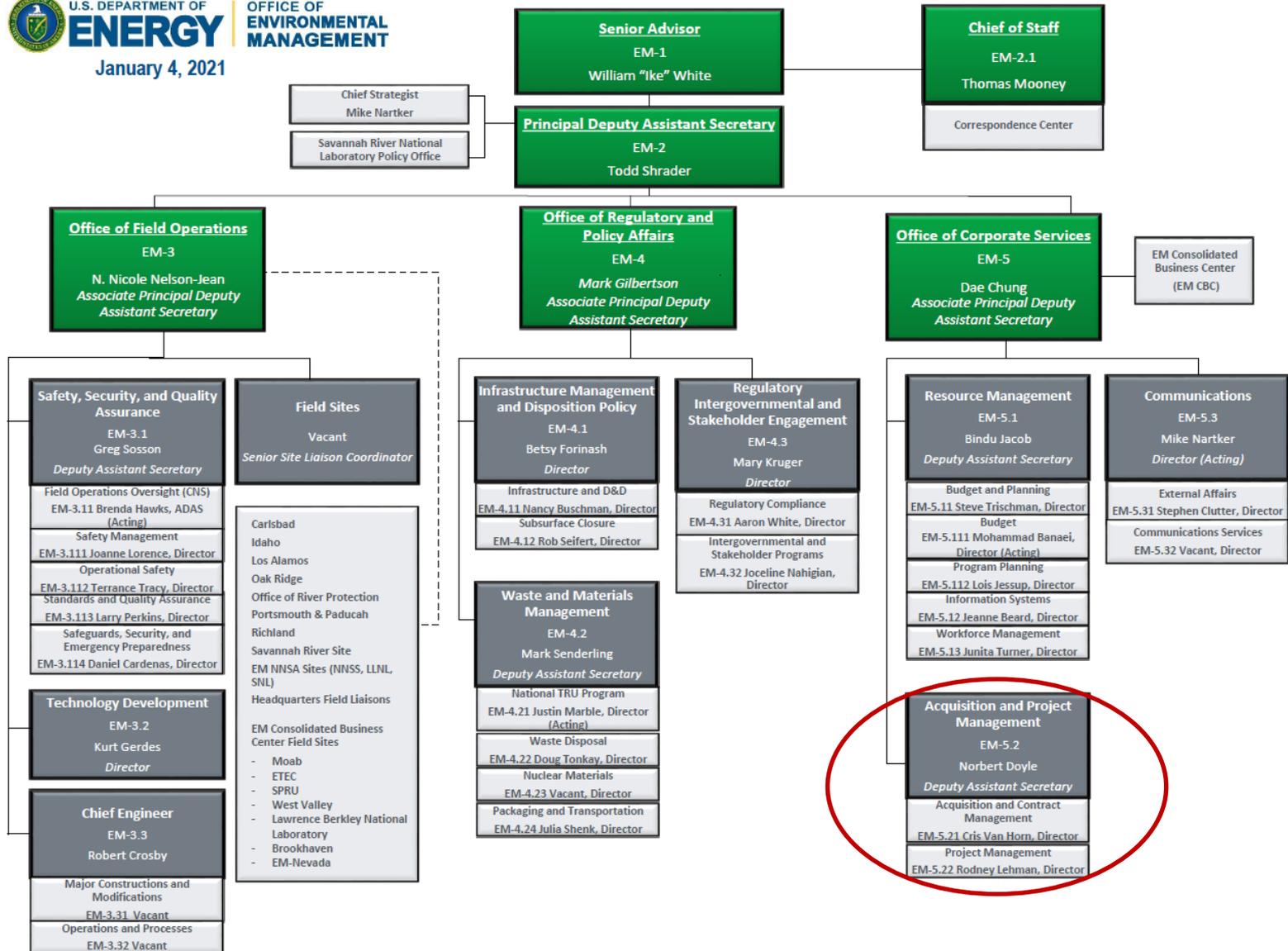




U.S. DEPARTMENT OF ENERGY

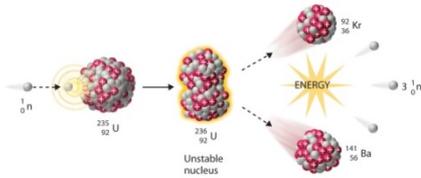
January 4, 2021

OFFICE OF ENVIRONMENTAL MANAGEMENT



Reference: <https://www.energy.gov/em/about-us>

From the Birth of the Atomic Age to Today: EM's History



1938

Nuclear Fission

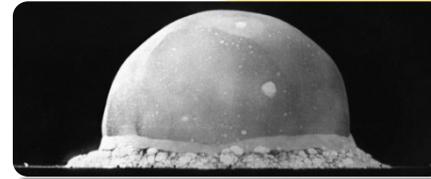
First observed by German Physicist Otto Hahn and his assistant Fritz Strassmann



1942

Manhattan Project

Manhattan District of the US Army Corp of Engineers



1945

Trinity Test Shot

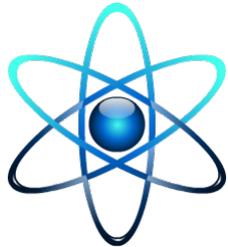
First detonation of a nuclear weapon. ≈ 20 kilotons of TNT



1946

Atomic Energy Commission

Now under civilian control



1954

Atoms for Peace

*Atomic Energy Act of 1954
Allowed for a civilian (peaceful, non-defense) nuclear industry.*



1974

Nuclear Regulatory Commission

Regulate civilian uses of nuclear materials



Energy Research and Development Administration

Nuclear weapons program



1977

Department of Energy

Formerly ERDA

1989

Environmental Management

Nuclear weapons legacy clean-up

About Us: EM Historical Timeline

SEPTEMBER 1952 Lawrence Livermore National Laboratory (LLNL) Established



December 1953 Savannah River Plant (SRP) R Reactor Becomes Operational

In December 1953, R Reactor became SRP's first production reactor when it was "taken to critical" (meaning that full operation resulted in a sustained nuclear chain reaction). The R Reactor served as a prototype for the four other SRP reactors: P, L, K, and C. At left, the SRP R Reactor.

JANUARY 1954 Idaho Started Receiving Transuranic (TRU) Waste from Across the DOE Complex

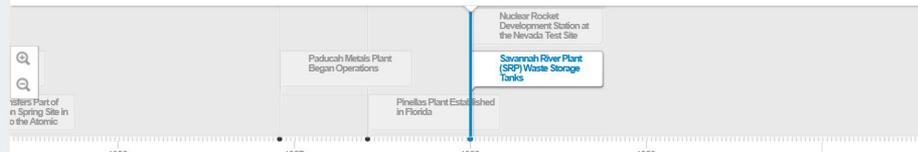
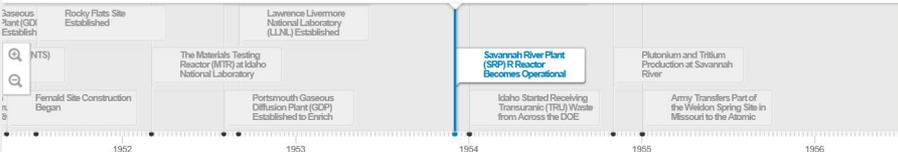
1958 Nuclear Rocket Development Station at the Nevada Test Site (NTS)



1958 Savannah River Plant (SRP) Waste Storage Tanks

SRP began constructing large million-gallon liquid waste storage tanks in 1958 to store highly radioactive liquid waste (HLW). This waste was generated as a by-product from the separations process used in the F and H Canyons to recover plutonium from the spent nuclear fuel (SNF) that came from the site's production reactors. The site would eventually construct 51 underground storage tanks in two tank farms holding more than 37 million gallons of HLW. At left, SRS Tanks 17, 18, 19, and 20 under construc-

APRIL 1961 West Valley Site History



1971 Reactors Upgraded and Support for Non-Weapons Work at Savannah River Plant (SRP)



May 1972 Savannah River Plant (SRP) Designated as First National Environmental Research Park

In 1972, SRP was designated as the first National Environmental Research Park. Ecological studies were performed of SRP plants and animals. Eventually an Archaeological Program (SRARP) was established to perform data analysis of pre-historic and historic sites on SRP land in 1978.

At left, an archeology site excavation at

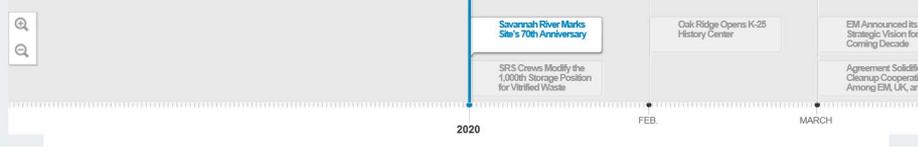
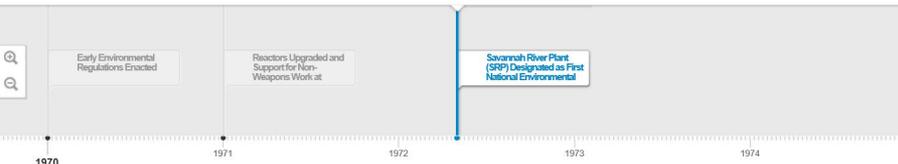
1976 Nevada Test Site (NTS) Began Disposing of Waste from Other Sites



January 2020 Savannah River Marks Site's 70th Anniversary

2020 marked the 70th anniversary of the Savannah River Site (SRS) and provided an opportunity to reflect on the site's history and to celebrate accomplishments.

JANUARY 2020 SRS Crews Modify the 1,000th Storage Position for Vitrified Waste Canisters



Reference: <https://www.energy.gov/em/mission/office-environmental-management-history>

Six Primary Mission Areas

Special Nuclear Materials & Spent Nuclear Fuel
\$ 585M / 8%

TRU & Solid Waste
\$ 1,036M / 14%

Soil & Groundwater
\$ 433M / 6%

EM's FY 2021 Enacted - \$7.586 Billion Total

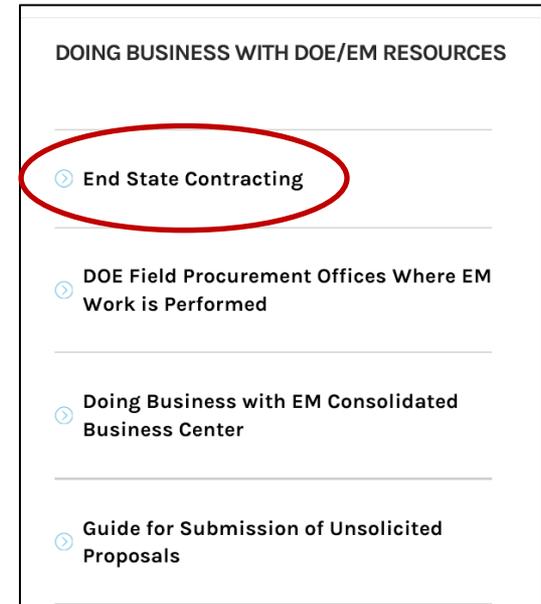
Radioactive Tank Waste
\$ 2,814M / 37%

Facility D&D
\$ 1,545M / 20%

Site Services
\$ 1,173M / 15%

- ❖ No major Pre-Award impacts encountered
- ❖ Quarterly Special Notices in beta.SAM.gov with Procurement Schedule Projections begin March 14, 2020
- ❖ April 28-29, 2020 – SRNL M&O “Virtual” pre-solicitation conference and one-on-one sessions
- ❖ May 7, 2020 Quarterly Update with projected Final RFP release dates:
 - Idaho Cleanup Project – May 2020
 - Savannah River National Laboratory Management and Operating Contract – June 2020
- ❖ August 10, 2020 Quarterly Update with projected Final RFP release dates:
 - Nationwide LLW and MLLW Treatment Services – August 2020
 - Carlsbad Technical Assistance Contract – August 2020
 - SRS Integrated Mission Completion Contract – September 2020
 - Portsmouth Infrastructure Support Services – October 2020
 - Oak Ridge Reservation Cleanup Contract – November 2020
 - Moab Remedial Action Contract – December 2020
- ❖ November 19, 2020 Quarterly Update with projected Final RFP release dates:
 - Oak Ridge Reservation Cleanup – December 2020
 - Moab Remedial Action Contract – January 2021
- ❖ September 8-10, 2020 – Oak Ridge Reservation Cleanup “Virtual” pre-solicitation conference and one-on-one sessions
- ❖ “Virtual” Oral Problem Scenarios and Oral Interviews (Idaho Cleanup Project)

- ❖ **Competitive Indefinite Delivery, Indefinite Quantity (IDIQ) Request for Proposal**
- ❖ **Initial Period of Performance up to 10 years – minimum guarantee**
- ❖ **Technical Evaluation Criteria in order of importance**
 - **Key personnel**
 - ✓ Resumes
 - ✓ Oral presentation
 - ✓ Program Manager interview
 - **Past performance**
 - **Management approach**
 - ✓ Contract Transition Approach
 - ✓ IDIQ management approach
 - ✓ Provide meaningful work to Small Business concerns
- ❖ **Cost and Fee/Profit Proposal includes: (i) Transition Costs; (ii) Key Personnel Costs; (iii) Direct Labor Rates; and (iv) Fee/Profit Ceiling Rates**
- ❖ **Best Value decision where Technical Evaluation Criteria are significantly more important than the Evaluated Price**





- About EMCBC
- Offices
- Serviced Sites
- DOE Links
- Jobs
- Hot Topics
- Visitor Information
- Useful Links
- FOIA/PA

Current Acquisition Websites

Carlsbad

- [Carlsbad Field Office \(CBFO\) Technical Assistance Services \(TAC\) Procurement Contract](#)
- [Waste Isolation Pilot Plant \(WIPP\) Operations Acquisition](#)
- [Waste Isolation Pilot Plant \(WIPP\) Transportation Services](#)

Hanford

- [222-S Laboratory Contract \(222-S LAB\)](#)
- [Hanford Tank Closure Contract](#)
- [Direct Feed Low Activity Waste \(DFLAW\) Facilities Contract](#)

EM

- [EM End State Contracting Model \(ESCM\)](#)
- EM - ETEC**
- [Energy Technology Engineering Center \(ETEC\) Mission Completion](#)

EM - Idaho

- [Idaho Cleanup Project \(ICP\)](#)

DOING BUSINESS WITH DOE/EM RESOURCES

- End State Contracting
- DOE Field Procurement Offices Where EM Work is Performed
- Doing Business with EM Consolidated Business Center**
- Guide for Submission of Unsolicited Proposals

The EM Consolidated Business Center, in Cincinnati OH, is a center of excellence for acquisition expertise and hosts central contract suites that support work across the EM complex. The EMCBC is responsible for EM funded work for procurement, contract, and financial assistance actions at the Environmental Management Consolidated Business Center, Carlsbad Field Office, Environmental Management Los Alamos Field Office, EM Headquarters and EM Complex for Specific Contract Actions site offices.

Reference: <https://www.emcbc.doe.gov/About/CurrentAcquisitionWebsites>

Major EM Contracts Summary

Site	Contract Description	Contractor and Contract Number	Current Contract Period	Total Value	Contract Type
Carlsbad Field Office	Waste Isolation Pilot Project Management and Operating Contract	Nuclear Waste Partnership, LLC/DE-EM0001971/(LLC Team: Amentum, BWXT)	10/01/2012 to 9/30/2021	\$2.7B	(M&O) CPAF
	Carlsbad Technical Assistance Contract	Portage, Inc./DE-EM0004007	11/12/2015 to 6/3/2021	\$51.8M	T&M & FP Task Orders
	Carlsbad Transportation Services (WIPP)	CAST Specialty Transportation, Inc./DE-EM0004767	06/01/2017 to 05/31/2022	\$112M	FP, Cost, & IDIQ CLINS
Idaho Operations Office	Idaho Cleanup Project Core and Advanced Mixed Waste Treatment Project	Fluor Idaho, LLC/DE-EM0004083	06/01/2016 to 05/31/2021	\$2.0B	CPIF & CPFF
	NRC Licensed Facilities Management Contract	Spectra Tech, Inc./DE-EM0003976	04/01/2016 to 3/31/2021	\$45M	FP, Cost, & IDIQ CLINS
	U-233 Disposition Project	Isotek Systems, LLC/DE-AC05-04022860	10/09/2003 to 12/31/2024	\$556.6M	Base Period and Option 1 - CPFF;

PROCUREMENT INFORMATION RESOURCES

- ⌚ Major Contracts Summary
- ⌚ EM Major Contracts Awarded Since 2006
- ⌚ Energy Savings Performance Contracts Summary
- ⌚ EM Contractor Fee Determinations
- ⌚ Major Conformed Contract Links

See referenced link for complete listing.

Reference: <https://www.energy.gov/em/services/program-management/acquisition>

Fiscal Year (FY) 2019-2020 Extension 4 Fee Determination Scorecard

Contractor: Savannah River Remediation, LLC (SRR)

Contract: DE-AC09-09SR22505

Award Period: April 1, 2019 – September 30, 2020

Basis of Evaluation: Performance Evaluation Measurement Plan (PEMP) for FY 2019-2020 Extension 4

The FY 2019-2020 PEMP for this contract is available at: <https://srcontracts.srs.gov/>

Award Fee Scorecard:

Subjective Fee (Award Fee) Summary Table

Criteria	Maximum Available Fee	Adjectival Rating	Fee Determined from Adjectival Ratings	
			Percentage	Fee amount
Contractor will be subjectively measured against all aspects of Contract Output described in the PEMP.	\$10,233,419	Very Good	90%	\$9,210,077

Achievements:

- Completion of regulatory actions and commitments related to:
 - Tank 10 Bulk Waste Removal Completion and processing of salt waste thru TCCR-Unit 1
 - F Tank Farm Deactivation Plan Submittal
 - Interim Closure Strategy for Saltstone Disposal Unit 4
 - Cessation of Waste Removal activities in F-Tank Farm Diversion Boxes 5 and 6
 - Issuance of the 2020 Saltstone Disposal Facility Performance Assessment resolving long standing Nuclear Regulatory Commission (NRC) issues
 - Treatment and Disposal of DWPF Recycle waste at an offsite commercial disposal facility

• Implementation of the eWAC (Electronic Waste Acceptance Criteria) to reduce the time required to

PROCUREMENT INFORMATION RESOURCES

- ⓘ Major Contracts Summary
- ⓘ EM Major Contracts Awarded Since 2006
- ⓘ Energy Savings Performance Contracts Summary
- ⓘ EM Contractor Fee Determinations
- ⓘ Major Conformed Contract Links

* Small Business Set Aside

† End State Acquisitions



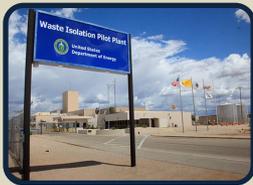
EM Oak Ridge

- Oak Ridge Reservation Cleanup†



Portsmouth/Paducah Project Office

- Paducah Infrastructure Support Services* (Recently Awarded)
- Portsmouth Infrastructure Support Services*
- Portsmouth Gaseous Diffusion Plant Decontamination & Decommissioning†
- Portsmouth/Paducah Operation of DUF6 Conversion Facilities



Carlsbad Field Office

- Technical Assistance Contract*
- Waste Isolation Pilot Plant Operations
- Waste Isolation Pilot Plant Transportation Services*



Savannah River Site

- Savannah River Site Paramilitary Security Services
- Savannah River Site Integrated Mission Completion Contract†
- Savannah River National Laboratory Management & Operating Contract
- Savannah River Site Management Follow-on Contract

* Small Business Set Aside

† End State Acquisitions



EMCBC Field Sites

- **EM Nevada Environmental Services Program II*†** (Recently Awarded)
- **Moab Remedial Action Contract*†**
- **Energy Technology Engineering Center (ETEC) Mission Completion***



Hanford Site

- **Central Plateau Cleanup Contract†** (Recently Awarded)
- **Hanford Mission Essential Services Contract** (Recently Awarded)
- **222-S Laboratory Contract*** (Recently Awarded)



Idaho

- **Idaho Cleanup Project†**



EM-HQ

- **Nationwide Deactivation, Decommissioning and Removal** (9 Contracts Recently Awarded)
- **Nationwide Low-Level and Mixed Low-Level Waste Treatment Services** (Recently Awarded)
- **EM Elemental Mercury Long-Term Management and Storage**

Reference: <https://www.emcbc.doe.gov/About/CurrentAcquisitionWebsites>

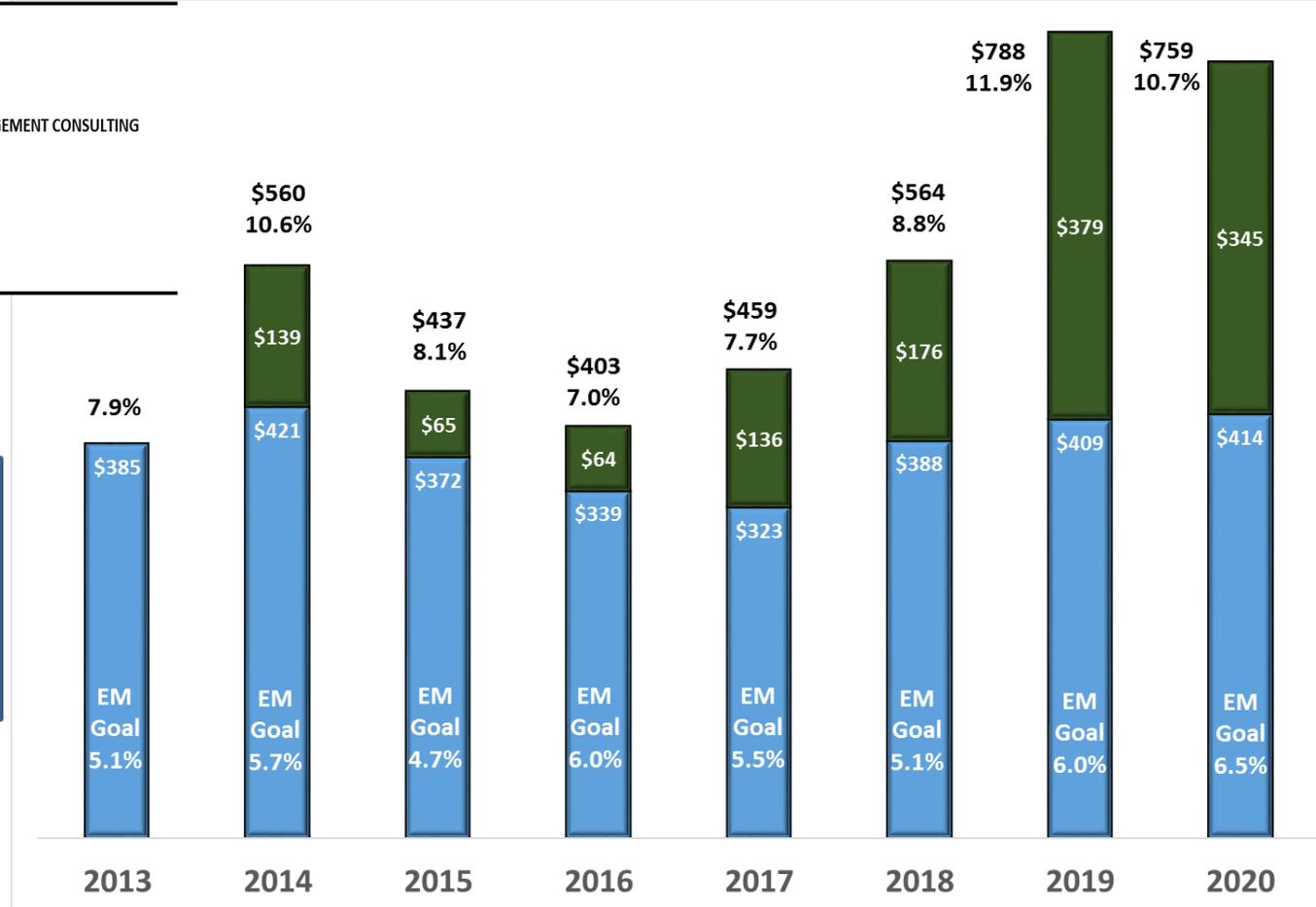
Small Business Prime Contract Funding Trends

PRIMARY NAICS CODES

NAICS Code	NAICS DESCRIPTION
541620	ENVIRONMENTAL CONSULTING SERVICES
541611	ADMINISTRATIVE MANAGEMENT AND GENERAL MANAGEMENT CONSULTING SERVICES
561210	FACILITIES SUPPORT SERVICES
562211	HAZARDOUS WASTE TREATMENT AND DISPOSAL
562910	REMIEDIATION SERVICES

- EM Prime SB Obligations
- M&O First Tier SB Subcontract Commitments

(\$ in Millions)



Small Business Inclusion in Major Cleanup RFPs

- Section H Special Clause – Subcontracted Work
 - Primary purpose of clause is to require that meaningful work is performed by Small Businesses
 - End State Contracting Model (ESCM): % of Total Contract Value Small Business Requirement as well as Small Business Goals within Small Business Subcontracting Plan
 - Basis for Percentages: Consider a number of data points, including but not limited to historical Small Business achievement on the project as well as incumbent workforce considerations
 - Meaningful work: Discrete and distinct technical or programmatic scopes of work within the PWS that directly contribute mission accomplishment
- Section B – Small Business Subcontracting Fee Reduction Clause
 - Fee reduction if the Contractor has not met the subcontracting requirement, and/or has failed to provide meaningful work for Small Businesses

Small Business Inclusion in Major Cleanup RFPs

- Section M DOE Evaluation Criteria - Offeror's approach to meet the Small Business subcontracting requirement included within Technical and Management Approach
- Teaming Subcontractor vs. Critical Subcontractor
 - ESCM includes re-naming as Teaming Subcontractor
 - Similar definition: Prime Offeror considers necessary to enhance its approach or ability to meet delivery requirements within the Master IDIQ PWS
 - Teaming Subcontractors count toward fulfillment of the Section H clause entitled, Subcontracted Work, and other small business goals in the Contract
- Challenges – Particularly related to the ESCM, it will be important for Prime Contractors to identify Small Businesses that provide innovative solutions and/or efficiencies to support maximum mission progress as well as reductions in environmental risk and financial liability
- Mentor-Protégé Agreements – ESCM RFPs include a requirement for two (2) Mentor-Protégé Agreements

Increasing Small Business Participation

- **Direct contracts to small businesses**
 - Use of the SBA socio-economic programs
 - Contracts to Indian country
- **Sub-contracting**
 - Mandated goals in our large contracts
 - Hold contractors accountable for performance
 - Meaningful work
- **Mentor-Protégé program**
 - SBA program, but DOE has it's own program
 - RFPs require two agreements
 - Focus on various socio-economic categories
 - Mentors provide technical assistance, business development, planning, strategy, and guidance
- **Supply Chain Management Center**
 - 60% with small business
 - Self-identify as a potential supplier
 - Partner with prime contractors
 - Metrics contribute toward category management achievement



SUBCONTRACTING OPPORTUNITIES CONTACTS

CARLSBAD FIELD OFFICE

Nuclear Waste Partnership, LLC (WIPP)
Ryan Williamson (575) 234-7123
ryan.williamson@wipp.us

IDAHO OPERATIONS OFFICE

Fluor Idaho, LLC
Idaho Cleanup Project (ICP) Core
Jennifer Lloyd (208) 533-0017
jennifer.lloyd@icp.doe.gov

OAK RIDGE OFFICE

URS/CH2MHill (UCOR)
Freda Hopper Boyd (865) 574-3449
freda.boyd@etp.doe.gov

RICHLAND OPERATIONS OFFICE

CH2M Hill Plateau Remediation Co.
CHPRCSB@rl.gov

Johnson Controls, Inc.
Shelly Ohman (509) 373-3277
michelle.l.ohman@jci.com

Mission Support Alliance (MSA), LLC
Haley Taylor (509) 376-7927
small_business_advocate@ri.gov

WEST VALLEY

CH2M Hill B&W West Valley, LLC
Michelle Schweickert (716) 942-2910
michelle.schweickert@chbw.com

OFFICE OF RIVER PROTECTION

Bechtel National, Inc. (Waste Treatment Plant) Bill Cover
wtpsba@bechtel.com

Washington River Protection Solutions, LLC
(Hanford Tank Operation)
Talia Ochoa (509) 376-6964
WRPSSmallBusiness@ri.gov

LOS ALAMOS

Newsport News Nuclear BWXT-Los Alamos, LLC
Meghan Ryan (505) 551-2908
megan.ryan@em-la.doe.gov

Julie Baer (Small Business Coordinator)
(505) 551-2363, julie.baer@em-la.doe.gov

SUBCONTRACTING OPPORTUNITIES CONTACTS

SAVANNAH RIVER OPERATIONS OFFICE

Savannah River Nuclear Solutions, LLC
J. Alex Agyemang (803) 952-6874
j.alex.agyemang@srs.gov

Lori Gee-Nipple (803) 952-7597
Lori.Gee@srs.gov

Savannah River Remediation, LLC
Ashley Hannah (803) 952-7305
ashley.hannah@srs.gov

Centerra-SRS
Liz Harris (803) 952-7630
Elizabeth.harris@srs.gov

PORTSMOUTH/PADUCAH PROJECT OFFICE

Fluor-BWXT Portsmouth, LLC
(Portsmouth D&D)
Karen Davis (740) 897-3187
karen.davis@ports.pppo.gov

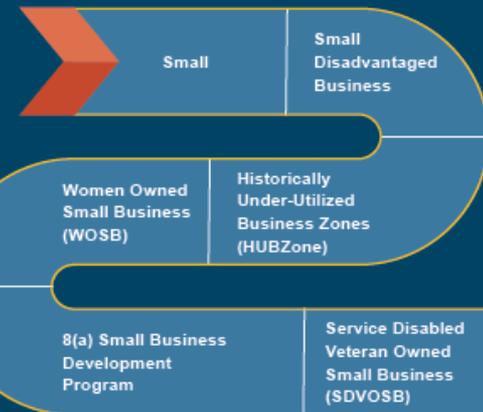
Mid-America Conversion Services, LLC
(DUF6 Conversion Services)
Carol Ajirogi (Supply Chain Manager)
(859) 685-9267, carol.ajirogi@duf6.pppo.gov

Kimberly Peace (Sr. Subcontract Administrator)
(859) 685-9273, kimberly.peace@duf6.pppo.gov

Four Rivers Nuclear Partnership, LLC
(Paducah Deactivation and Remediation)
Melissa Kickasola (270) 441-5486
melissa.kickasola@pad.pppo.gov

EM Small Business
U.S. Department of Energy
1000 Independence Ave. SW
Washington, DC 20585
(202) 586-3805

EM Small Business Program



RECOGNIZING THE BENEFITS OF MAXIMIZING SMALL BUSINESS CONTRACT AWARDS

The mission of the Office of Environmental Management (EM) is to complete the safe cleanup of the environmental legacy brought about from five decades of nuclear weapons development and government-sponsored nuclear energy research.

- ❖ EM Small Business Program Manager (and HQ/EMCBC/PPPO/CBFO/LANL/Field Sites): Anne Marie Bird, (513) 256-2141; **annemarie.bird@emcbc.doe.gov**
- ❖ EM Oak Ridge Office: Natasha White, (865) 576-2397; **natasha.white@orem.doe.gov**
- ❖ Idaho Operations Office: Trevor Bluth, (208) 526-3277; **bluthm@id.doe.gov**
- ❖ Office of River Protection: Kelly Brazil, (509) 376-0174; **ORPSB@rl.gov**
- ❖ Richland Operations Office: Robin Whitney, (509) 376-1416; **robin.whitney@rl.doe.gov**
- ❖ Savannah River Operations Office: Parodio Maith, (803) 952-9487; **parodio.maith@srs.gov**

- DOE Small Business First Policy: <https://www.directives.doe.gov/directives-documents/500-series/0547.1-APolicy-a>
- DOE OSDBU: <https://www.energy.gov/osdbu/office-small-and-disadvantaged-business-utilization>
- DOE Acquisition Forecast: <https://www.energy.gov/osdbu/small-business-toolbox/acquisition-forecast>
- DOE Mentor-Protégé Program: <https://www.energy.gov/osdbu/programs/mentor-prot-g-program>
- Listing of EM Major Contracts: <https://www.energy.gov/em/downloads/major-contracts-summary>
- EMCBC Major Procurements Website: <http://www.emcbc.doe.gov/doingbusiness.php>
- EMCBC Prime Contracts: <https://www.emcbc.doe.gov/About/PrimeContracts>
- EM Public Website: <https://www.energy.gov/em/office-environmental-management>

Website: energy.gov/em

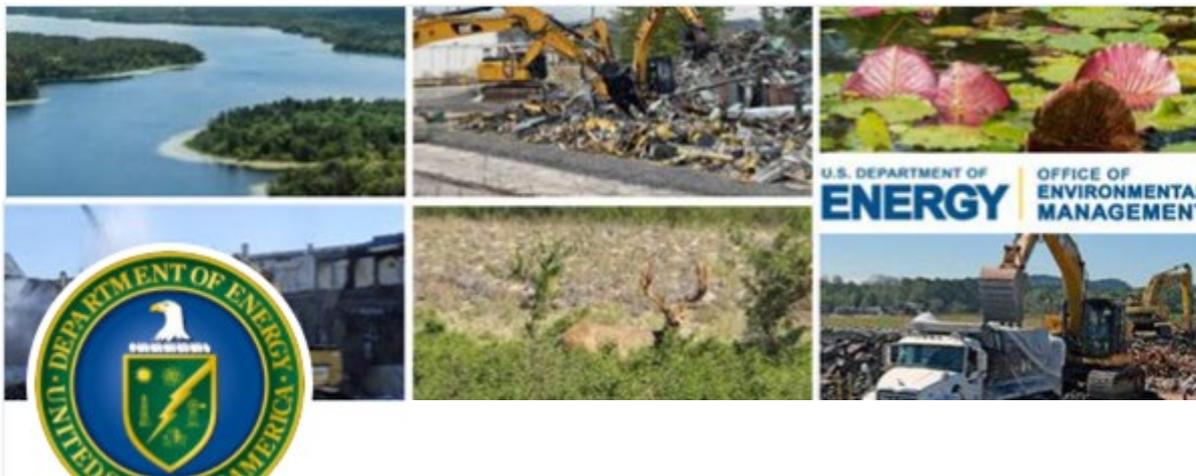
Social Media:



@EMCleanUp



facebook.com/DOEEEnvironmentalManagement



Contact Information:

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